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PROCEEDINGS
OF THE
BOARD OF REGENTS
OF THE
UNIVERSITY OF MICHIGAN,
FROM
JANUARY, 1881, TO JANUARY, 1886.

PUBLISHED BY THE UNIVERSITY.

ANN ARBOR, MICH.:
THE COURIER BOOK AND JOB PRINTING ESTABLISHMENT.
1886.

JANUARY MEETING,

1881.

UNIVERSITY OF MICHIGAN,
Wednesday, January 12, 1881. }

The Board of Regents assembled in the room of the President in adjourned session, at 7½ o'clock P. M.

Present—Acting-President Frieze, Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

The minutes of the last meeting were approved as printed.

The first business of the meeting, as stated by Acting-President Frieze, was to take suitable action relative to the report of the Library Committee, which had been prepared in accordance with the request of the Regents at their last meeting. With consent of the Board, the paper would be read by Professor E. S. Dunster. Regent Cutcheon moved that the paper be read. The motion prevailed.

At the close of the reading of the paper, Regent Grosvenor moved that it be received and referred to the committee on the Department of Literature, Science, and the Arts. The motion to refer prevailed.

Regent E. C. Walker stated that Professor Adams, who was then present, would present to the Board, if desired to do so, the results of his examination and correspondence relative to plans for a library building. By request of the Board, Professor Adams then made a statement covering his correspondence and the action of the Library Committee; also, relative to plans for a library building. At the close of the remarks of Professor Adams,

Regent Grosvenor moved that the Committee on Buildings and Grounds be associated with the Library Committee in the further examination and consideration of the subject then under discussion. The motion prevailed.

Acting-President Frieze stated that several papers of importance had been placed in his hands, which he desired might be referred to appropriate committees for consideration and future action. On motion, the papers were so referred.

Regent Van Riper announced the presence of Dr. Donald Maclean, who desired to address the Board relative to the wants of the Department of Medicine and Surgery. On motion, permission was granted. At the close of the remarks of Dr. Maclean, the Board went into executive session, and at the close of the executive session, adjourned to 9 o'clock A. M., to-morrow.

MORNING SESSION.

Thursday, January 13, 1881.

The Board reconvened in the room of the President, at 9 o'clock A. M. Present, a full Board.

Regent Grosvenor stated that at the June meeting of the Board the appointment of Dr. Ebenezer O. Bennett had been agreed upon by the committee on the medical department, for the position of Hospital Physician and Surgeon, to fill the place vacated by Dr. Alexander Maclean. As no formal action of the Board had been taken (which he regarded as an oversight), he desired to present the following resolution, and ask that it be adopted.

Resolved, That Dr. Ebenezer O. Bennett be and hereby is appointed Hospital Physician and Surgeon at a salary of \$450 a year. Salary to begin October 1, 1880.

The resolution was adopted by vote as follows :

Ayes—Regent E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

The following communication from the Dean of the College of Dental Surgery, was read by Regent Grosvenor :

ANN ARBOR, January 10, 1880.

To the Honorable Board of Regents :

At the June meeting, 1880, of this Board, Dr. U. D. Billmeyer was appointed Assistant to the Professor of Clinical Dentistry in the Dental College, at a salary of \$200 per annum. At the beginning of the present session, additional work to that contemplated in the appointment was imposed upon Dr. Billmeyer, viz.: the collection of all fees from patients treated in the infirmary, and keeping the accounts of the same, thus quite doubling the labor of the position. By this work from \$300 to \$500 per annum is brought to the treasury of the University. It is here suggested that the sum of \$100 be added to the salary of the present incumbent, or other provision be made for the performance of this work.

Respectfully submitted,

J. TAFT, Dean.

At the close of the remarks on the communication just read, Regent Grosvenor submitted the following resolution :

Resolved, That a sum not exceeding one hundred dollars be and is hereby appropriated as compensation for extra services rendered by Dr. U. D. Billmeyer in collecting fees from patients treated, and for keeping the accounts of the same, for the current year.

The motion was adopted by vote as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Cutcheon, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent Climie, the Board went into executive session, at the close of which, business in open session was resumed.

The following communication was read by Regent Grosvenor.

To the Honorable, the Board of Regents :

The Faculty of the Department of Medicine and Surgery beg leave to report that John Francis Denslow, having complied with all the requirements for the degree of Doctor of Medicine, is hereby recommended for that degree.

A. B. PALMER, Dean.

Regent Grosvenor submitted the following resolution, which was adopted.

Resolved, That the degree of Doctor of Medicine be conferred upon John Francis Denslow, in accordance with the recommendation of the Faculty of the Department of Medicine and Surgery.

The following resolution submitted by Regent Cutcheon was unanimously adopted :

Resolved, That Regents Grosvenor, Van Riper, and S. S. Walker be a Special Committee upon *New Legislation*, and that they be requested to present to the University Committees of the two houses of the Legislature, the wants of the University in the matter of appropriations ; also, to present the matter of the necessity of some new legislation relating to the supply of Anatomical Material ; and that Dr. G. E. Frothingham and Dr. W. J. Herdman be requested to act with said committee in the latter matter.

Regent Cutcheon stated that a communication from Professor J. W. Langley, addressed to the Executive Committee of the Board had been received, and having given the matter due consideration, he would read the report of the committee, and ask that it be adopted.

The following is the report referred to :

The Executive Committee to which was referred the request of Professor J. W. Langley for a leave of absence for thirty days from the 17th inst., would recommend that the same be granted.

B. M. CUTCHEON,
GEORGE DUFFIELD,
JAMES SHEARER.

On motion of Regent Walker, the report just read by Regent Cutcheon was adopted.

The following communication was read by Regent Cutcheon :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Faculty of the Department of Literature, Science, and the Arts beg leave to recommend to your Honorable Body, for approval, the following requirements for the degree of Civil Engineer, viz :

The degree of Civil Engineer may be conferred upon Bachelors of Science of this University, who have taken the degree in the department

of Civil Engineering, if they furnish satisfactory evidence that they have pursued further technical studies for at least one year, and, in addition, have been engaged in professional work, in positions of responsibility, for another year. The first of the above requirements may be satisfied by pursuing at the University, under the direction of the Faculty a prescribed course of study, for an amount of time, not necessarily consecutive, equivalent to a college year. If the candidate does not reside at the University, his course of study must be approved in advance by the Professor of Civil Engineering, and he must prepare a satisfactory thesis on some engineering topic, to be presented, together with a detailed account of his professional work, one month, at least, before the date of the Annual Commencement at which he expects to receive the degree.

Respectfully submitted,

P. R. B. DE PONT, Secretary.

At the close of the reading of the communication from the Secretary of the Faculty of the Department of Literature, Science, and the Arts, and of the discussion upon the same, Regent Cutcheon submitted the following report, which was adopted unanimously :

The Committee on the Literary Department to which was referred the communication of the Faculty of the Department of Literature, Science, and the Arts, in regard to the requirements for the degree of Civil Engineer, would report the same back to the Board, and recommend that the requirements for said degree of Civil Engineer be fixed as recommended by said communication, subsequent to the academic year of 1880-81.

B. M. CUTCHEON,
E. O. GROSVENOR,
GEORGE DUFFIELD.

The following resolution, presented by Regent Cutcheon, was adopted :

Resolved, That the title of Dr. W. J. Herdman be changed from "Lecturer on Pathological Anatomy, and Demonstrator of Anatomy," to "Assistant Professor of Pathological Anatomy, and Demonstrator of Anatomy," to rank as such from the 11th day of November, 1880, with no change of salary.

Regent Cutcheon also submitted the following resolution which was adopted :

Resolved, That the title of Dr. Victor C. Vaughan be changed from "Lecturer on Medical Chemistry, and Assistant in the Chemical Laboratory," to "Assistant Professor of Medical Chemistry, and Assistant in the Chemical Laboratory," to rank as such from November 11, 1880, with no change of salary.

On motion of Regent Climie, a recess was taken to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reconvened in the room of the President, at 2 o'clock P. M.

Present, a full Board.

Professor Winchell appeared before the Board and made a statement relative to the large and very valuable collection of fossils now owned and in the possession of Dr. Rominger, of this city. He asked the Board of Regents to appoint a committee to examine the collection with the view of a possible purchase at some future time, should the financial condition of the University permit. If no purchase could be made, he suggested the propriety of giving a place in the new museum building to the Rominger collection, provided that terms could be made which would be satisfactory both to the Board and to the owner of the collection.

At the close of the address of Professor Winchell, and of the discussion of the question by the Board, Regent S. S. Walker read the following report :

The Committee on the Museum, School of Mines, and Astronomical Observatory, who have had in charge the communication of Professor Winchell, recommending the purchase of the geological collection of Dr. Rominger at \$3,500, would respectfully report that they regret that the condition of the finances of the University is such that at present we can not recommend the expenditure. The suggestion that the collection could be deposited with the University, to be paid for at a future time, does not meet our approval. We deem the policy at least a questionable one, and though we hope the collection may ultimately become the property of the University, and believe that it would be an

invaluable addition, we cannot at present see any method of securing it.

The same committee have received a communication from Professor Steere, recommending the purchase from Mr. Covert of an interesting collection of archaeological specimens at \$80. We would state that while the collection would be an interesting addition, we do not feel that the expenditure of funds for its purchase would be at this time advisable. We would recommend the appropriation of the sum of \$60, for the purchase of one microscope and accompaniments for the use of the Professor of Zoölogy.

The interesting report of the Director of the Observatory on the work of the past year, has been submitted to the committee and we would recommend that it be published and that 400 copies be printed for the use of the University.

SAMUEL S. WALKER,
B. M. CUTCHEON,
J. J. VAN RIPER.

At the close of the reading of the report by Regent S. S. Walker, it was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

The following preamble and resolution were submitted by Regent Shearer and were adopted :

WHEREAS, At the last meeting of the Board, the matter of ventilation in the law and main buildings of the University was referred to Regent Climie with instructions to perfect the same as far as practicable, therefore,

Resolved, That this ventilating be made as promptly as practicable, but to be done within the cost of three hundred dollars, and that all ducts must be of metal.

The vote on the adoption of the resolution of Regent Shearer was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be requested to inquire into the necessity and feasibility of putting in the

University Buildings a telephone connecting with the central office in this city, and to report the cost of the same.

The following resolution presented by Regent Van Riper was adopted :

Resolved, That a committee of one be appointed by the President, to examine the palæontological collection of Dr. Rominger, ascertain its extent, the room required, and whether place can be spared in our museum building for the same; and also to ascertain the terms upon which the collection could be stored in the museum building.

Regent E. C. Walker read a communication from the Dean of the School of Pharmacy, relative to creating a *second degree* in that Department, to be styled the degree of "*Fellow of the School of Pharmacy*." At the close of the discussion of the paper, on motion, it was referred back to the committee for further consideration, with instructions to report at a future meeting of the Board.

Regent Duffield read a report of the Joint Committee, consisting of the Library Committee and the Committee on Buildings and Grounds, relative to "a report of the members of the Library Committee, representing the several Departments of the University." On motion of E. C. Walker, the report was received and laid on the table for the time.

Regent Grosvenor stated that he had received a communication from the Hospital Committee, so-called, which he desired to read, and he would also submit a resolution which he would ask might be adopted.

The following is the paper and resolution referred to by Regent Grosvenor :

To the Honorable Board of Regents :

We the undersigned members of the Hospital Committee of the Faculty of the Department of Medicine and Surgery, agree that for the present year the sum appropriated for assistants in the Clinics and Hospital, should be distributed as follows:

Fred Baker, M. D., assistant to Dr. Frothingham, to have two hundred dollars.

——— ——— ———, assistant to Dr. Maclean, to have two hundred dollars.

Lorin Hall, M. D., assistant to Dr. Dunster, to have one hundred dollars.

P. E. Nagle, M. D., assistant to Dr. Palmer, to have one hundred dollars.

The above would serve the convenience of all interested for the present year, better than the appointment of two assistants at three hundred dollars each. We ask your Honorable Board to make this change in the resolution passed at your last meeting.

G. E. FROTHINGHAM,
DONALD MACLEAN,
A. B. PALMER,
E. S. DUNSTER.

At the close of the reading of this communication, Regent Grosvenor submitted the following resolution :

Resolved, That the request of the petitioners be granted, and that the arrangement suggested by the Hospital Staff be permitted and approved as stated.

On motion, the resolution presented by Regent Grosvenor was adopted.

Regent E. C. Walker moved that the Board take a recess to 7½ o'clock P. M. The motion prevailed.

EVENING SESSION.

Thursday, January 13, 1881.

The Board reconvened in the room of the President, at 7½ o'clock P. M.

Present, a full Board.

On motion of Regent Climie, the Board went into executive session, at the close of which the unfinished business of the open session was resumed.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be authorized to borrow a sum not to exceed \$15,000, as needed to meet any deficiency in the

receipts of the University, and to issue therefor the warrants of the University, to become due July 4, 1881.

The vote on the adoption of Regent E. C. Walker's resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor read a communication from the Dean of the College of Dental Surgery, which, on motion, was received and laid on the table until the next meeting of the Board.

The following resolution submitted by Regent Grosvenor was adopted :

Resolved, That the Auditing Board be authorized to make any temporary arrangement with the Matron of the Homœopathic Hospital, for the board of patients, that may become necessary.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the Legislative Committee ask of the Legislature the following appropriations for the next two years, viz :

For Library Building.....	\$100,000
“ Gymnasium Building.....	10,000
“ College of Dental Surgery.....	6,000 per annum
“ Sewer.....	7,500
“ Eye and Ear Hospital Ward and Equipment.....	3,500
“ University Hospital Expenses.....	3,500 per annum
“ Mechanical Laboratory.....	2,500
“ Homœopathic Hospital.....	2,000 per annum
“ Homœopathic College Expenses.....	2,000 “ “
“ Library (purchase of books).....	5,000 “ “
	<hr/>
	\$160,500
To reimburse General Fund for building Laboratory Enlargement	15,000
	<hr/>
	\$175,500

On motion of Regent Grosvenor, the report of Regent Duffield, presented at the afternoon session, was taken from the table.

The report is as follows :

The Joint Committee, consisting of the Library and Building Committees, to whom was referred the report of the members of the Library Committee, representing the several Departments of the University, would report :

1. That in so far as the report now rendered at the request of the Regents touches "the necessity for a library building and the reasons for it," the same be approved and adopted by the Board as their own.

2. That so much of it as is thus adopted by the Board be printed in the form of a memorial, and presented by an appropriate committee to the Legislature now in session at Lansing.

3. That the valuable information contained in the report and obtained by correspondence, as to the plans and cost of building, be placed on file for such use as the aforesaid committee may see desirable.

4. That the memorial be signed by the original committee of the several Departments and by the members of this Board.

5. That the committee to present the matter to the Legislature consist of Professors Adams and Tyler, in connection with the committee of the Board of Regents.

The vote on the adoption of the report of Regent Duffield was as follows :

Ayes—Regent E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the matter of preparing a memorial to accompany and urge the appropriation of the several sums deemed necessary for the support of the several Departments to be benefited thereby, be and is hereby referred to to the Executive Committee, and that 500 copies of said memorial be printed.

Ayes—Regent E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Cutcheon submitted the following resolutions, which, at the close of appropriate remarks suggested by the occasion, were unanimously adopted :

Resolved, That this Board has received with profound regret the intelligence of the recent decease of Professor James Craig Watson, late

of this University, whose great scientific attainments and world-wide fame as an observer and discoverer, has reflected so great honor upon this Institution, of which he was an honored Alumnus.

Resolved, That we do hereby record our high appreciation of the remarkable scientific career of Professor Watson, for many years Director of our Astronomical Observatory and Professor of Astronomy. We recognize Professor Watson as one of those rare men who bore the unmistakable stamp of genius. A mathematician of wonderful acuteness, an observer of almost unequalled keenness, an astronomer of profound and comprehensive knowledge, his untimely death before reaching the meridian of his manhood, is not only a grief to his *Alma Mater*, but an irreparable loss to the cause of science throughout the world.

Resolved, That the secretary of this Board be instructed to furnish a copy of these resolutions to the family of the late Professor Watson.

The following resolution submitted by Regent Shearer was adopted :

Resolved, That the Auditing Board be and is hereby instructed to have all steam pipes examined, and when in contact with wood to be freed therefrom so as to permit a full passage of air around said steam pipes.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the title of Professor J. B. Steere be hereafter "Professor of Zoölogy."

The following resolution submitted by Regent Climie was adopted :

Resolved, That the sum of \$114.50 be and is hereby appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent Cutcheon, the Board adjourned to meet on call of the President.

H. D. BENNETT,

SECRETARY.

MARCH MEETING,

1881.

UNIVERSITY OF MICHIGAN,
Wednesday, March 9, 1881. }

The Board of Regents assembled in the room of the President at 7½ o'clock p. m., and were called to order by Acting President Frieze, who read the following paper :

LANSING, MICH., Feb. 17, 1881.

Acting President Frieze, University of Michigan :

Dear Sir,—The undersigned, Regents of the University, respectfully request that a special meeting of the Board of Regents be called by you, at the President's room, Wednesday, March 9, at 7½ p. m.

J. J. VAN RIPER.

SAMUEL S. WALKER.

E. O. GROSVENOR.

GEORGE DUFFIELD.

The roll was called by the Secretary, and the following Regents answered to their names :

Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

By request of Acting President Frieze, the meeting was opened with devotional exercises by Regent Duffield.

On motion of Regent Cutcheon, the minutes of the last meeting were approved as printed.

Regent Grosvenor stated the reasons why this special meeting of the Board had been called. He said that one reason, and perhaps the principal one, was the certainty that Regent Shearer, and himself also, could not be present at the regular meeting, which would occur on Tuesday the 22d inst. ; and as

important business would necessarily come before the Board at the March meeting, he was of the opinion that a full Board could not convene except in special session at this time, and in this opinion his colleagues who signed the call with him fully concurred.

At the close of the remarks of Regent Grosvenor, Regent Cutcheon read the following paper, placed in his hands by the Secretary of the Board :

DETROIT, MICH., March 5, 1881.

GENTLEMEN,—On the 27th day of January last a decree was rendered by the Supreme Court in favor of Dr. Douglas and against the University, for \$2045.80 and costs taxed at \$1605.94 ; total, \$3651.74.

I give you the date and amount of the decree, thinking it possible that you may not have them, as you were not represented by counsel in the Supreme Court, and may desire to have them before you at your approaching meeting, when some provision will be made for payment.

Yours very respectfully,

SAMUEL T. DOUGLASS,

Solicitor for S. H. Douglas.

To Henry D. Bennett, Secretary of the Board of Regents.

The communication was accepted, and ordered printed in the minutes.

Regent Cutcheon moved that the Board do now go into executive session. The motion prevailed. After the close of the executive session the open session was resumed.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be directed to obtain from the Clerk of the Supreme Court of the State the amount of the decree lately rendered against the University, and cause the same to be paid in full, in the usual manner of claims against the University, and that a discharge of the decree be obtained and caused to be filed in the Court at Lansing.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent Cutcheon, Regents S. S. Walker and Duffield were appointed a committee to report a plan for the distribution of the copies of the University Book now in possession of the University.

A communication from Mr. W. K. Childs was received and read by the Secretary of the Board. On motion of Regent E. C. Walker, the communication was referred to the Committee on the Museum.

The following resolution, submitted by Regent E. C. Walker, was unanimously adopted :

Resolved, That the subject of the Museums of the University, their care, management, and arrangement, be referred to the Committee on the Museum, with Professors Winchell, Pettee, Steere, Acting President Frieze, and the Deans of the several Departments having museums, and that they be requested to prepare a set of by-laws and rules for their future management.

On motion, the Board adjourned to 9 o'clock A. M. to-morrow.

MORNING SESSION.

Thursday, March 10, 1881.

The Board reconvened in the room of the President at 9 o'clock A. M.

Present, a full Board.

The following report and resolution was read by Regent Shearer :

To the Honorable Board of Regents :

GENTLEMEN,—The matter of providing a Safe for the use of the President and Finance Committee, which was given into my charge, has received due attention, and I have to report that the offer of the Detroit Safe Company is entirely satisfactory, and its acceptance is recommended.

In connection with the report, I desire to submit the following resolution, and respectfully ask that it be adopted :

Resolved, That the Secretary be and is hereby instructed to make a copy of the sketch of a Safe herewith submitted, and forward the same to the Safe Company, with an order for the Safe described, to

cost not more than \$100; the upper division to be labeled "President," the lower division, "Finance Committee"; said Safe to be paid for after its receipt.

The report was accepted, and the resolution was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent E. C. Walker, the Board went into executive session, after which the business of an open session was resumed.

A communication from President James B. Angell, addressed to the Honorable, the Board of Regents, through the Acting President, was read, at the request of the latter, by Regent E. C. Walker, and, on motion, was referred to the Executive Committee.

Subsequently, Regent Cutcheon, chairman of the Executive Committee, presented the following report and resolution :

To the Honorable Board of Regents :

The Executive Committee, to which was referred the letter of President Angell, requesting an extension of his leave of absence from the University until the close of the first semester of the next academic year, would report that they have had the same under consideration, and being satisfied that said extension can be granted without serious detriment to the University, recommend that the following resolution be adopted :

Resolved, That the leave of absence heretofore granted to President J. B. Angell be extended to the close of the first semester of the academic year 1881-'82, to complete his duties as Minister to China.

B. M. CUTCHEON.

GEORGE DUFFIELD.

JAMES SHEARER.

On motion of Regent Cutcheon, the resolution was adopted unanimously by vote as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker moved that the Board take a recess till 2 o'clock P. M. The motion prevailed.

AFTERNOON SESSION.

The Board of Regents reassembled in the room of the President at 2 o'clock P. M.

Present, a full Board.

On motion of Regent Climie, the Board went into executive session. At the close of business in executive session, the doors were opened, and the business of the open session resumed.

Regent Climie stated that he had received, during the recess of the Board, a communication which he read as follows :

To the Honorable, the Board of Regents of the University of Michigan :

I hereby tender you my resignation as Assistant Professor of Physiological Chemistry and Toxicology ; the same to take effect October 1, 1881.

P. B. ROSE.

ANN ARBOR, MICH., March 10, 1881.

On motion, the resignation of Assistant Professor P. B. Rose was accepted, by vote as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Cutcheon presented the following resolution :

Resolved, That the Acting President be instructed to arrange with Professor Henry C. Adams, to deliver the course of lectures upon Political Economy during the first semester of the next academic year, upon the same terms as during the present year, namely, \$800 for the semester.

The resolution was adopted on a call vote, as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Climie read a report relative to the action he had taken in regard to an examination of the Rominger collection, which was accepted, and, on motion of Regent Cutcheon, was placed on file.

The following resolution was submitted by Regent Cutcheon :

Resolved, That the matter of receiving the collection of Dr. Rominger be referred to a special committee, consisting of Professors Winchell and Pettee, to arrange for the reception of said collection, upon the following conditions, to wit :

1. The Board of Regents to be under no obligation, either expressed or implied, to purchase said collection, or any part thereof, at any time.
2. The Board of Regents to be under no liability, express or implied, for the safe keeping or preservation of said collection.
3. Said collection to be placed in position in the Museum without expense to the Board of Regents, and to be removed therefrom, also, without expense to the Board, whenever required by the Board.
4. Said collection to be used, if desirable, under the direction and superintendence of the proper Professors, for the purpose of class instruction.
5. Said collection to be kept together or dispersed, according as said special committee shall arrange with Dr. Rominger.

On the motion to adopt the resolutions the vote was as follows :

Ayes—Regents Climie, Cutcheon, Duffield, and Van Riper.

Nays—Regents E. C. Walker, S. S. Walker, Grosvenor, and Shearer.

The motion was lost.

Regent Duffield submitted the following resolution, which was adopted :

Resolved, That such copies of the minutes of the Board of Regents as may be needed to complete their files, be granted to the State Library at Lansing.

The following communication was read by Regent Grosvenor :

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, MICH., March 10, 1881. }

To the Honorable, the Board of Regents :

GENTLEMEN,—I respectfully request leave of absence for the purpose of attending the annual meeting of the American Medical Association. Legislation on which final action is to be taken at this meeting is now pending, and it affects materially the situation and prosperity of the Medical Department of the University.

Very respectfully, etc.,

E. S. DUNSTER, M. D.,

Professor of Obstetrics and Diseases of Women and Children.

On motion of Regent Grosvenor, leave of absence was granted to Professor Dunster, in accordance with his request.

On motion of Regent Grosvenor, leave of absence was granted to Professor C. L. Ford, of the Department of Medicine and Surgery, on and after the close of his present lecture term.

On motion of Regent Grosvenor, the question of increase of fees for material and instruments in the Chemical, Microscopical, and Physiological Laboratories was referred to the Executive Committee, with instructions to examine, and report at the June meeting of the Board.

Regent S. S. Walker, of the special committee to whom was referred the matter of devising a plan for the distribution of the University Book, submitted the following report and resolution :

To the Honorable, the Board of Regents :

Having been appointed a committee to report a plan for the distribution of the University Book, we would suggest the following :

1. That 315 copies be reserved as the property of the Board, to be kept in the vault, subject to their disposal.
2. That 75 copies be reserved for the President, Acting President, Heads of State Departments, Members of Congress, and ex-Regents.
3. That 90 copies be loaned to Mr. T. R. Chase, compiler, to be accounted for by him after final settlement with his publishers.
4. That 100 copies be placed in charge of the Librarian, for exchange with other colleges having triennial or general catalogues.
5. That 10 copies be forwarded to persons from whom obligations were incurred in the progress of the work by the compilers.
6. That 10 copies be sent to the State Librarian.

The following resolution is respectfully submitted :

Resolved, That the Board of Auditors be and are hereby directed to have 100 copies of the Michigan University Book bound in permanent binding, for the use of the Board.

SAMUEL S. WALKER,
GEORGE DUFFIELD,

Committee.

The resolution was unanimously adopted.

The following communication was read by Regent Grosvenor :

To the Honorable, the Board of Regents :

GENTLEMEN,—I desire to recommend Thomas J. Sullivan, M. D.,
(a graduate of our Department this year,) as my assistant.

Yours respectfully,

DONALD MACLEAN.

Regent Grosvenor moved that the appointment be made as requested.

Agreed to by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield; Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Cutcheon submitted the following resolution, which was unanimously adopted :

Resolved, That whenever any microscope, or other apparatus of the University, shall become out of order or useless, it shall be brought to the attention of the Auditing Board, who may in their discretion have the same repaired, or sold without repair. And hereafter no apparatus or material shall be sold except when so ordered by the Auditing Board.

The following communications were read by Regent Grosvenor :

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, February 7, 1881. }

MY DEAR SIR,—There are here in the Library, in the condition described, the following Homœopathic journals, *unbound* :

U. S. Medical Investigator, N. S., Vols. 1–12, inclusive....	12
Hahnemannian Monthly, Vols. 1–2	2
Cincinnati Medical Advance, Vols. 3–8, inclusive.....	6
New England Medical Gazette, Vols. 6, 7, 8, 14, and 15...	5
American Observer, Vols 7, 9, 13, and 17.	4
American Homœopathist, Vols. 1, 2, 5, and 6.....	4
Medical Counsellor, Vols. 1–3, inclusive.....	3
Homœopathic Times, Vol. 7.....	1=37

About half the volumes are complete—the others are more or less incomplete.

I would suggest an application to the Regents, at their meeting on the 9th instant, for sufficient money to fill up the incomplete volumes and bind the whole. I think that \$40.00 would cover the whole expense. Any other information that I can give on the subject I shall be glad to furnish.

Very truly yours,

R. C. DAVIS, Librarian.

Dr. E. C. Franklin, Dean of the Homœopathic Medical College.

To the Honorable, the Board of Regents :

GENTLEMEN,—I recommend that the application of Mr. R. C. Davis, Librarian, be complied with, and that the necessary amount of money be expended for the purposes set forth in the application.

E. C. FRANKLIN, Dean.

Regent Grosvenor moved that the request of the Dean of the Homœopathic Medical College to bind the publications named by the Librarian be complied with; and that a sum not exceeding forty dollars, or so much thereof as may be necessary, be and is hereby appropriated for that purpose.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None

Regent Cutcheon moved that, when the Board adjourn, it adjourn to meet on Tuesday, March 22, 1881, at 7½ o'clock P. M. The motion prevailed.

Regent E. C. Walker submitted the following resolution :

Resolved, That the sum of \$230.34 be and is hereby appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent Cutcheon, the Board adjourned.

H. D. BENNETT,

SECRETARY.

ADJOURNED MEETING,

MARCH, 1881.

UNIVERSITY OF MICHIGAN. }
Tuesday, March 22, 1881. }

The Board of Regents assembled in the room of the President at 7½ o'clock P. M., pursuant to adjournment.

Present—Acting President Frieze, Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper. A quorum present was announced.

The reading of the minutes of the last meeting was dispensed with.

Regent Van Riper read the following communication from the Dean of the Department of Law :

UNIVERSITY OF MICHIGAN, DEPARTMENT OF LAW, }
ANN ARBOR, March 22, 1881. }

To the Honorable, the Board of Regents :

On behalf of this Department I respectfully report that the following named persons have passed their examinations in law and have complied in all respects with the rules of the Department, and they are therefore respectfully recommended for the degree of Bachelor of Laws.

Fred Daniel Allaben.....	Lansing.
Wilson Hough Angeny.....	Doylestown, Pennsylvania.
James Hardin Atterbury.....	Litchfield, Illinois.
Walter Wheaton Augur.....	Ann Arbor.
Walter Barlow.....	Ypsilanti.
Charles Adolph Bartcher.....	Cincinnati, Ohio.
Thomas Boyd Beall.....	Troy, Ohio.
George W. Benham.....	Norwalk, Ohio.
Charles William Bertch.....	Lansing.
Hiram Otis Bliss.....	Three Rivers.
Irving H. Blythe.....	Malvern, Ohio.
Frederic Hathaway Borrodalle.....	St. Catharines, Ontario.

Emmet Bratton.....	Angola, Indiana.
Frank William Briggs.....	Elyria, Ohio.
A. F. Allen Brown.....	Jamestown, New York.
Ferdinand Brucker.....	Bridgeport.
Lewis Brucker.....	East Saginaw.
E. Morris Campbell.....	Noblesville, Indiana.
Homer Levi Castle.....	Pittsburgh, Pennsylvania.
J. Marshall Chatterson.....	Brantford, Ontario.
John McDowell Cochrane.....	Minneapolis, Minnesota.
Roger Cope.....	Leetonia, Ohio.
Simpson Cornick.....	Knoxville, Tennessee.
Jay Corson.....	Green Oak.
Frank Mortimer Cowles.....	Lansing.
Albert Milton Crisler.....	Eaton, Ohio.
Jesse David Crow.....	Owensboro, Kentucky.
Harry Micajah Daugherty.....	Washington Court House, Ohio.
Frank Allison Davis.....	Sag Harbor, New York.
William Sharon Davis.....	San Jose, California.
Albert Dodge.....	Fowlerville.
William Donahue.....	Hillsdale.
Azariah S. Doss.....	Owensville, Indiana.
John Wesley Dunkle.....	West Freedom, Pennsylvania.
Samuel Houston Du Shane.....	Connellsville, Pennsylvania.
Marion Reed Elliott.....	Corvallis, Oregon.
William Frederick Elliott.....	Indianapolis, Indiana.
John Lewis Finley.....	West Jersey, Illinois.
George Moore Fletcher.....	Rumney, New Hampshire.
William Monroe Fogler.....	Saint Elmo, Illinois.
William G. Forrest.....	Detroit.
John Steele Francisco.....	Warrensburgh, Missouri.
Simeon P. Francisco.....	Warrensburgh, Missouri.
Charles Albert Fritchle.....	Mount Hope, Ohio.
Gideon Sheldon Fuller.....	North Ferrisburgh, Vermont.
Jay Fuller.....	Ann Arbor.
Noah H. Garner.....	Central College, Ohio.
John Giberson.....	Evart.
Solomon Ginsburg.....	Detroit.
Alfred Graber.....	Findlay, Ohio.
Howard Granger.....	Ann Arbor.
George Philip Graver.....	Allegheny, Pennsylvania.
Nye Gregg.....	Washington Court House, Ohio.
Henry Horatio Guenther.....	Buffalo, New York.
Fremont C. Hamilton.....	East Liberty, Ohio.
Edward Henry Hart.....	Wellington, Ohio.
Cornelius Lawrence Harvey.....	Grand Rapids.
William Emil Henze.....	Detroit.
Hartwig Harry Herbst.....	Saint Paul, Minnesota.
Walter Raleigh Hinckley.....	Belleville, Illinois.
Frank Willis Hine.....	Lowell.
Thomas Hislop.....	Detroit.
Gilbert Morrell Hitchcock.....	Omaha, Nebraska.
Henry George Holmes.....	Detroit.

Daniel George Hopkins.....	Madelia, Minnesota.
Herbert Harlow Howe.....	Pittsfield.
Fred Fluella Huntress.....	Mount Pleasant.
William Jason Huse.....	Sedalia, Missouri.
Samuel Thomas Jeffreys.....	Corvallis, Oregon.
William Hall Jenkins.....	Ann Arbor.
Jay J. Jennings.....	Norwalk, Ohio.
Thomas Jefferson Johnson.....	Ironton, Ohio.
William Henry Johnston.....	Darlington, Indiana.
Emanuel Bosworth Korns.....	South Bend, Indiana.
Harry Gottlieb Larimer.....	Topeka, Kansas.
James Law.....	Mankato, Minnesota.
Fred Pierce Leonard.....	Mount Vernon, Indiana.
D. Wilford Le Valley.....	Burlington Flats, New York.
Frederic William Lord.....	Springfield, Illinois.
John Wesley Lounsbury.....	Hammondsport, New York.
Edgar Henry Loyhed.....	Faribault, Minnesota.
Marvin Emory Mathews.....	Marshall, Minnesota.
Frederick Wylie Mayne.....	Charlevoix.
John E. McGill.....	Plymouth.
Sanford Emora McGinnis.....	Gosport, Indiana.
Benjamin Hammond McGrew.....	Le Grand, Iowa.
Kit McKean.....	Elkhart, Indiana.
Thomas Joseph McLaughlin.....	Valparaiso, Indiana.
Edward McNamara.....	Lapeer.
Loren Hermon Mershon.....	Akron, Ohio.
Charles Robert Middleton.....	Afton, Minnesota.
John H. Mitchell.....	Portland, Oregon.
George Lemon Moore.....	Ann Arbor.
Rollin John Morse.....	Wixom.
John Francis Murphy.....	Ann Arbor.
George Marius Nelson.....	Hutchinson, Minnesota.
Theron Clare North.....	Lansing.
Charles Nusbaum.....	Petersburgh, Illinois.
John Joseph O'Brien.....	East Saginaw.
Joseph Gerald Orr.....	La Porte, Indiana.
Edward Henry Ozmun.....	Saint Paul, Minnesota.
Cassius M. Clay Peters.....	Scio.
Horace Edwin Powers.....	Earlville, Illinois.
Bert Corbyn Preston.....	Armada.
Emerson Williams Price.....	New Hagerstown, Ohio.
William Clay Purdum.....	Kokomo, Indiana.
William Mitchell Rathbone.....	Detroit.
Clement Reidler.....	Frostburgh, Maryland.
Garrison Charles Reynolds.....	Leslie.
Alden Lothrop Roadarmour.....	Gallipolis, Ohio.
Andrew Cooper Robeson.....	Arcanum, Ohio.
Francis Scott Romig.....	Tuscarawas, Ohio.
Joseph Francis Sartori.....	Cedar Falls, Iowa.
William Henry Seudder, Jr.,.....	Saint Louis, Missouri.
William Graves Sharp.....	Elyria, Ohio.
Thomas Reese Shaw.....	West Rushville, Ohio.

John Marion Sheets.....	Columbus Grove, Ohio.
John Andrew Shepherd.....	Cumberland, Indiana.
Cassius Clay Shirley.....	New London, Ohio.
William Clark Shumway.....	Mexico, New York.
Charles Sumner Smith.....	Saginaw.
David Smith.....	Tarentum, Pennsylvania.
Horace Greeley Smith.....	Mount Pleasant, Ohio.
William Cadid Smith.....	Kokomo, Indiana.
Franklin Henry Squires.....	Cortland.
Willet Barker Stickney.....	Buffalo, New York.
Jacob Seymour Stimmel.....	Columbus, Ohio.
John Clay Struble.....	Taylorsville, Indiana.
Arthur Hay Swarthout.....	Saginaw.
Levant Reuben Swift.....	Eaton Rapids.
Leona R. Taylor.....	Ann Arbor.
William Watson Tinkham.....	Baraboo, Wisconsin.
William Peter Van Winkle.....	Pinckney.
John P. Vaughan.....	Mount Airy, Missouri.
Bazel Wells Veirs.....	Chicago, Illinois.
Buffon Stewart Walker.....	Fort Madison, Iowa.
Edwin Ward.....	Jacksonville, Illinois.
Edwin Alonzo Warren.....	Bancroft.
Zadok Senter Washburn.....	Leslie.
Wallace Wesley Weatherly.....	Sturgis.
Richard Sherman Wheeler.....	Shelby, Ohio.
John White.....	Bryan, Ohio.
Arthur Andrew Wilson.....	Edgeworth, Ontario.
James French Winn.....	Winchester, Kentucky.
Purl Greene De Witt Woodruff.....	Rockport, Indiana.
Total.....	145

THOMAS M. COOLEY, Dean.

The following resolution, submitted by Regent Van Riper, was adopted unanimously :

Resolved, That the degree of LL. B. be and is hereby conferred upon each of the persons named in the above communication from the Dean of the Faculty of Law; in accordance with the recommendation of that Faculty.

Acting President Frieze read the following communication :

AINTAB, CENTRAL TURKEY, }
September 27, 1880. }

Professor H. S. Frieze, University of Michigan :

Dear Sir,—On Saturday last I sent to your address, for the Museum of the University, a box containing all the bones of a camel. I trust the box will reach you in good order. It was addressed to the care of Charles Hutchins, Esq., Rooms of the A. B. C. F. M., Congregational House, Boston. The animal was a female, four years of age.

The freight and other expenses will be charged to me. The set of bones was complete when it left here, and I trust will be so when it reaches you. Possibly you have such a skeleton already, but I doubt it. The camel was killed for food. With many wishes for the prosperity of the University, I remain, dear sir,

Yours most truly,

T. C. TROWBRIDGE.

At the close of the reading of the above communication, Regent E. C. Walker presented the following resolutions, which were unanimously adopted :

Resolved, That the cordial thanks of the Board of Regents be given to the Rev. T. C. Trowbridge, LL. D., of Aintab, Turkey, for the gift of a complete skeleton of a camel.

Resolved, That the Acting President and Secretary be directed to have the skeleton of the camel which has been presented to the University by the Rev. T. C. Trowbridge, mounted in a proper manner and placed in the Museum of Natural History.

The following communication from the Dean of the College of Dental Surgery was read by Regent Climie :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, March 22, 1881. }

To the Honorable, the Board of Regents :

The following named persons having completed the prescribed course of study in this Institution for the degree of Doctor of Dental Surgery, and having passed a satisfactory examination, are by the Faculty recommended to your honorable body for graduation, viz :

Wilbert George Bean.....	Detroit.
Henry Franklin Billmeyer.....	Brooklyn.
Albert Victor Bills.....	Oakland, California.
Ephraim David Brower.....	Ackley, Iowa.
Joseph Burger.....	Wuerzburg, Bavaria.
Solon Orville Burrington.....	Milwaukee, Wisconsin.
Charles Robert Calkins.....	Perry, New York.
George Henry Corey.....	Bristolville, Ohio.
Henry C. Corns.....	Detroit.
Lewis Craine.....	Erie, Pennsylvania.
Hiram DePuy.....	Pittsburgh, Pennsylvania.
Alban Vaughan Elliott.....	Washington, District of Columbia.
Almos Elias Emminger.....	Germantown, Ohio.
Fred N. Emrick.....	Germantown, Ohio.
Orion Jonathan Fay.....	Flat Rock.
Stephen Humbert Gerow.....	St. John, New Brunswick.
Augustus Niel Johnson.....	Newaygo.
Edward Lincoln Kellogg.....	Atchison, Kansas.

Jennie Catharine Kollock.....	Chicago, Illinois.
John James Little.....	Keepville, Pennsylvania.
Charles Maclean.....	Ann Arbor.
Guy Hamilton Morgan.....	West Bridgewater, Pennsylvania.
Denton E. Peterson.....	Waterloo, New York.
Charles Jay Siddall.....	Oberlin, Ohio.
Charles Alfred Sipe.....	Galion, Ohio.
John Silvers Tucker.....	El Paso, Illinois.
Joseph William Wassall.....	Mineral Point, Wisconsin.
Howard L. West.....	West Fairlee, Vermont.
B. Clark Williams.....	New Philadelphia, Ohio.
Lawson DeForest Wood.....	Malone, New York.

J. TAFT, Dean.

The following resolution, submitted by Regent Climie, was adopted :

Resolved, That the degree of Doctor of Dental Surgery be and is hereby granted and ordered to be conferred upon the candidates named in the communication from the Dean of the Faculty of the College of Dental Surgery.

Professor Taft appeared before the Board and made a statement relative to the importance of continuing Dr. U. D. Billmeyer in the position of Assistant to the chair of Clinical Dentistry during the coming year. At the conclusion of his remarks Regent Climie submitted the following resolution :

Resolved, That Dr. U. D. Billmeyer be and is hereby appointed Assistant to the Professor in Clinical Dentistry in the College of Dental Surgery, at a salary of six hundred dollars a year, to commence October 1, 1881.

The vote on the adoption of Regent Climie's resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

The following report was read by Acting President Frieze, and, on motion of Regent Cutcheon, was accepted and ordered printed in the minutes :

In relation to the resolution submitted by Regent Duffield at the November meeting of the Board of Regents, directing the Faculty of the Department of Literature, Science, and the Arts to inquire whether the study of the pure mathematics was not engrossing an undue proportion of time in that Department, the Faculty, having had the sub-

ject under consideration, have instructed me to present to the Board the following resolution :

Resolved, That the Acting President be instructed to report to the Board of Regents, that the Faculty cannot come to an agreement on the subject under consideration.

Regent Cutcheon presented the following resolution :

Resolved, That when this Board adjourns, it adjourn to 8½ o'clock to-morrow morning.

Agreed to.

The following resolution, submitted by Regent Cutcheon, was adopted :

Resolved, That Professor E. Olney and Professor C. K. Adams be requested to present to this Board, either orally or in writing, their views on the matter of the amount of mathematics that ought to be *required* for the various degrees in the Department of Literature, Science, and the Arts.

The following communication from the Professor of Zoölogy was read by the Acting President :

To the Honorable, the Board of Regents :

Dr. Stowell's Laboratory has become so overcrowded that it is impossible for him to give my class in Comparative Anatomy and Physiology the usual work with the microscope.*

I have divided the class, numbering fifty, into four sections, and by meeting two of the sections on Saturday, I am giving them the microscopic work myself.

I have borrowed eight old instruments from Room B—the room under Mrs. Stowell's charge—and with the instrument lately purchased for my Department, and my own microscope, I still lack enough to go round. I can get along with four more instruments, with one eye-piece and objective each. Such instruments have been purchased for Room B for about thirty-five dollars each, and I respectfully ask you, in consideration of the necessity of the case, to appropriate one hundred and forty dollars for this purpose.

Respectfully,

J. B. STEERE,

Professor of Zoölogy.

At the close of the explanations and discussion on the paper just read, Regent Climie presented the following resolution :

Resolved, That the Auditing Board be authorized to purchase for the use of the Professor of Zoölogy, four microscopes, at a cost not to exceed one hundred and forty dollars.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

On motion of Regent Cutcheon, the Board adjourned to 8½ o'clock to-morrow (Wednesday) morning.

MORNING SESSION.

Wednesday, March 23, 1881.

The Board reassembled in the room of the President at 8½ o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

The Board went immediately into executive session, at the close of which a recess was taken to the close of the Commencement exercises of the Department of Law, and of the College of Dental Surgery.

AFTERNOON SESSION.

The Board reassembled in the room of the President, in executive session.

Present—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

At the close of the executive session, Regent Cutcheon submitted the following resolution :

Resolved, That Regent Climie, in connection with the work of ventilation entrusted to him, be instructed to devise some adequate ventilation for the ladies' dressing-room and the closets connected therewith; and that at the same time he cause windows to be inserted in the openings between the ladies' dressing-room and the closet adjacent thereto.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

The following resolution, submitted by Regent Cutcheon, was adopted :

Resolved, That in case the University appropriation bill now pending before the Legislature becomes a law prior to the next meeting of this Board, the Committee upon Buildings and Grounds is hereby instructed to advertise for plans, specifications, and estimates for the new Library Building, in accordance with the general plan and memoranda submitted by Regent Shearer at the last meeting of this Board. Also, that said Committee take all necessary steps to procure plans and estimates for the Eye and Ear Ward of the Hospital, and for the Mechanical Laboratory; to have all necessary surveys made for the University sewer; and to secure right of way for the same from the city authorities of the city of Ann Arbor, or other competent authority.

The vote on the above resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

Regent Cutcheon presented the following resolution, which was unanimously adopted :

Resolved, That the matter of determining the amount of time to be *required* in the several branches of study for the various degrees in the Department of Literature, Science, and the Arts be and the same is hereby referred back to the Faculty of that Department, for the best adjustment that they can make.

The following communication was read by Regent Climie :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, March 22, 1881. }

To the Honorable, the Board of Regents :

Having been appointed by the Faculty a delegate to represent the Homœopathic College and Hospital at the American Institute, I ask your Honorable Board for leave of absence in June next, for ten days.

Very respectfully yours,

H. C. ALLEN.

On motion of Regent Climie, leave of absence was granted to Professor H. C. Allen, in accordance with his request.

The following communication was read by Regent Climie :

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, March 23, 1881. }

To the Honorable, the Board of Regents :

I respectfully request that an appropriation of \$100 be placed at the disposal of the Professor of Pathology and the Practice of Medicine and Clinical Medicine, for procuring instruments to be used in the Hospital, and for illustrations before the class. All of that sum may not be needed, but the Department has had no appropriation for several years, and instruments are now needed.

Very respectfully,

A. B. PALMER.

Regent Climie submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be hereby authorized to purchase instruments for the use of the University Hospital, at a cost not exceeding the sum of one hundred dollars.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

Regent Climie presented the following resolution :

Resolved, That the sum of \$69.50 be and is hereby appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, and Van Riper.

Nays—None.

On motion of Regent E. C. Walker, the Board adjourned.

H. D. BENNETT,
SECRETARY.

SPECIAL MEETING.

JUNE, 1881.

UNIVERSITY OF MICHIGAN,
Thursday, June 2, 1881. }

The Board of Regents assembled in special session in the room of the President at 7½ o'clock P. M.

Present—Acting President Frieze, Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

The meeting was opened with religious exercises by Acting President Frieze.

On motion of Regent Cutcheon the minutes of the last meeting were approved as printed.

Acting President Frieze briefly stated the objects of the meeting. He then read a communication which had been placed in his hands by Professor Moses Coit Tyler.

On motion of Regent Cutcheon, the communication read by the President was referred to the committee on the Department of Literature, Science, and the Arts.

The following report from the Faculty of the Department of Literature, Science, and the Arts was read by Acting President Frieze :

To the Honorable, the Board of Regents :

GENTLEMEN,—I have the honor to report to you that the Faculty, to which your Honorable Body had referred back the matter of determining the amount of time to be required in the several branches of study for the various degrees in the Department of Literature, Science, and the Arts, have had the subject under consideration, and, at the meeting of May 30th, adopted the following preamble and resolution :

Whereas, The Honorable, the Board of Regents of this University, at a meeting in November last, referred to this Faculty a question concerning the amount of time devoted to the study of Mathematics; and

Whereas, The question so referred to the Faculty involves the relative amount of time devoted to other studies in this Department; and

Whereas, The subject in its different phases has been considered with much care, not only by a special committee appointed for the purpose, but also by the Faculty as a whole; therefore,

Resolved, That, in answer to the question referred to us by the Board of Regents, we recommend the adoption of the following as the studies hereafter to be required for the several degrees given in this Department :

1st. In the Classical Course the "Required Studies" shall be the following, viz :

Greek	16 hours.
Latin	15 "
Mathematics	15 "
English	4 "
French	8 "
Logic	2 "

But, after a student has completed *seven* hours each of Latin and Mathematics, and *eight* hours of Greek, he may, at his option, discontinue the study of either Greek, Latin, or Mathematics. Instruction is to be given in accordance with the following arrangement of studies :

FIRST YEAR,	{	1st Semester,	{	Greek -----	4 hours.
				Latin -----	3 hours.
				Mathematics -----	3 hours.
				English -----	2 hours.
				French -----	4 hours.
				—	
				Total -----	16 hours.
	{	2d Semester,	{	Greek, Latin, French, and Mathematics, each 4 hours; total, 16 hours.	
SECOND YEAR,	{	Any two of the three studies: Greek, Latin, and Mathematics, 4 hours each for each Semester; making a total of required work of 8 hours, and leaving eight or ten hours for elective studies, each semester.	{		

The total of "required studies" thus amounts to fifty-two hours.

2d. In the Latin Course the "Required Studies" shall be the following, viz :

{	Latin.....	15 hours.	
{	Mathematics....	15	"
{	English.....	4	"
{	Logic.....	2	"
{	French.....	{ 8 or 16 hours each, (8 hours only being required in the study of that one of the Modern Languages in which the student was admitted to advanced standing).	
{	German.....		

But the student, after having completed *seven* hours each of Latin and Mathematics, and *eight* hours of the elementary course in one of the Modern Languages, may, at his option, discontinue the study of either Latin, Mathematics, or the Modern Language. The courses are to be arranged in such a manner that the student can pursue them in the following order :

FIRST YEAR, {	1st Semester, {	Latin.....	3 hours.
		Mathematics....	3 "
		English.....	2 "
		French.....	4 "
		German.....	4 "
		Total.....	16 hours.
	2d Semester, { Latin, Mathematics, French, and German, each 4 hours; total, 16 hours.		

SECOND YEAR : Any two of the three studies, Latin, Mathematics, and French or German, 4 hours each for each semester ; making, as in the Classical Course, a total of **8** hours of required work, and leaving 8 or 10 hours for elective studies, each semester.

The total of "required studies" will thus, as in the Classical Course, amount to fifty-two hours.

3d. In the English Course (B. L.), the "Required Studies" shall be the following :

{	Mathematics.....	2 hours.	
{	English.....	8	"
{	French.....	8 (16) hours	{ 8 of one and 16 of the other, at the option of the student.
{	German.....	16 (8) "	
{	History.....	8	"
{	Logic.....	2	"
Making a total of 44 hours.			

The order in which studies will be given is essentially the same as the order above described, excepting that the course in elementary English will be given in the Second Semester.

Respectfully submitted,

P. R. B. DE PONT,

Secretary of the Faculty.

NOTE.—The requirements for the Scientific Course have been referred to a special committee; and as the Engineering Course has not been particularly affected by this question, no change in that has been recommended.

At the close of the discussion on the report, Regent E. C. Walker moved that it be received, adopted, and printed in the minutes. The motion prevailed.

Regent S. S. Walker read a report from the committee which was appointed at the March meeting of the Board, to report a plan for the arrangement and care of the several museums.

On motion of Regent Climie, the report was referred to the Committee on the Museum.

Regent Cutcheon read a report relative to the charges made for instruction, use of apparatus, and material furnished in the Microscopical Laboratories. At the close of the discussion, on motion of Regent S. S. Walker, the report was referred to the Committee on Finance, with instructions to report at the earliest time practicable.

Regent E. C. Walker stated that he was in receipt of a communication which might require some action of the Board at some future time. He said the paper was of such a nature that it would be proper to refer it to the Committee on the Chemical Laboratory. Therefore he would move that it be so referred. The motion prevailed.

Regent S. S. Walker presented a communication from Professor Pettee and Professor Prescott, and asked that it be referred to the Committee on the Museum. There being no objection, it took that course.

Acting President Frieze read the following :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, April 21, 1881. }

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN,—I hereby tender my resignation as Resident Physician and Surgeon of the University Hospital, to take effect April 30, 1881.

Very respectfully,

E. O. BENNETT.

On motion, the resignation of Dr. E. O. Bennett was accepted.

The Committee on the Department of Literature, Science, and the Arts, through Regent Cutcheon, Chairman, reported back the communication of Professor Moses Coit Tyler, and moved the acceptance of his resignation, and recommended that the letter containing his resignation be printed in the minutes. The motion prevailed.

UNIVERSITY OF MICHIGAN, }
June 2, 1881. }

Dr. Henry S. Frieze, Acting President:

My Dear Sir:—It is known to you that several years ago I came to the resolution of devoting my life to original researches in American History and Literature, and to the composition of certain books upon these subjects. Since that time I have succeeded in accomplishing some small part of the literary plan thus formed; but owing to the meagreness of our University Library, and to our remoteness from the great book-collections of the east, I have been compelled to do my work hitherto in the face of most discouraging hindrances and embarrassments. It was under these circumstances that I received during the past year a proposition for relief, through my removal to an eastern university, at which I can prosecute my special labors with the needed facilities—a large library of Americana, easy access to other and still larger libraries of the same sort, as well as ampler private means for the purchase of important books and documents on my own account.

The proposition to which I refer has been carefully and anxiously considered by me. At first I was unwilling even to entertain it. I had no desire to leave the University of Michigan. In its service my labors have always been a delight to me; my official associates here are my dear friends; in the long succession of classes that have here come under my instruction, I have found multitudes of young men and women who were to me as willing workfellows in noble tasks; and in this happy sphere of robust and inspiring work, I had hoped to spend the remainder of my life. In considering the problem before me, however, I have been forced to regard as paramount the claims of my literary vocation, and to sacrifice to it the immediate wishes of my heart. After long reflection and with deep regret, I do, therefore, now place in your hands my resignation of the Professorship of English Language and Literature, to take effect at the end of the present academic year.

I take the liberty of adding that the pain I feel in thus sundering my connection with the University of Michigan, is in some measure tempered by the thought that I am leaving the University, not in any

hour of danger or of trouble, but in the full height of its great prosperity, and at the time when it can the most easily spare any one of its members. Though I now go from it, I shall never cease to remember it with affection and with gratitude, to be proud of my long connection with it, and to have faith in the greatness and splendor of its future.

Faithfully yours,

MOSES COIT TYLER.

On motion of Regent Cutcheon, the Board went into executive session. At the close of the executive session the Board adjourned to 8½ o'clock to-morrow morning.

MORNING SESSION.

Wednesday, June 3, 1881.

The Board reassembled in the room of the President at 8½ o'clock A. M.

Present—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

On motion of Regent E. C. Walker, the Board went immediately into executive session. At the close of the executive session, Regent Cutcheon submitted the following resolution :

Resolved, That Assistant Professor Isaac N. Demmon be and is hereby appointed Professor of English and Rhetoric, to date from Oct. 1, 1881, with salary of \$2,200 a year from that date.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Nays—None.

Regent S. S. Walker presented the following resolution, which was adopted :

Resolved, That Byron W. Cheever be and is hereby appointed Acting Professor of Metallurgy, at a salary of \$1,600 a year, to date from the first day of October next.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Nays—None.

The following resolutions, submitted by Regent S. S. Walker, were unanimously adopted :

Resolved, That from and after this date the title of Professor Pettee be that of Professor of Mineralogy, Economic Geology, and Mining Engineering.

Resolved, That Professor Cheever, until otherwise ordered, shall have charge of the same work he now has in the Laboratory in addition to the duties implied in the change this day made in his title.

Regent Cutcheon submitted the following resolution, which adopted :

Resolved, That a special committee of three be appointed to consider and devise a plan for securing a permanent increase of revenue for the University from fees, especially from persons not resident in the State of Michigan, and that said committee be instructed to report at the regular June meeting of this Board.

Acting President Frieze appointed Regents Cutcheon, Grosvenor, and S. S. Walker a committee, in accordance with the foregoing resolution.

The following resolution was presented by Regent E. C. Walker :

Resolved, That Assistant Professor Victor C. Vaughan be and is hereby appointed Assistant Professor of Physiological Chemistry, at a salary of \$1,600 a year, to commence October first, 1881.

The resolution was adopted by the following vote :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, and Grosvenor.

Nays—Regent Duffield.

A communication was read by Regent E. C. Walker, relative to Mining Engineering, which was accepted and referred to the appropriate committee.

Regent Cutcheon submitted the following resolution, which was adopted :

Resolved, That the report of the Committee on the Chemical Laboratory, except so much as relates to the appointment of Assistant Professor Victor C. Vaughan, be referred back to the same Committee, and that said Committee report at the regular June meeting.

Regent Cutcheon stated that he desired to read a resolution that he had in his hand, but wished no action of the Board at this meeting.

Resolved, That Assistant Professor Elisha Jones be and is hereby appointed Associate Professor of Latin, to rank as such from the beginning of the next academic year, at a salary of \$2,200 a year.

The resolution, on motion of Regent Cutcheon, was laid on the table until the regular meeting in June.

Regent Grosvenor stated that he was in receipt of several communications relative to matters which concerned the Medical Department and the Homœopathic Medical College, but he had not been able, as yet, to give them the necessary examination. He would therefore move that the papers be referred to the Committee on the Medical Department, for further consideration and future action.

There being no objection, the papers were so referred.

Regent Cutcheon read the following resolution :

Resolved, That the Committee on the Department of Literature, Science, and the Arts, be instructed to consider and report at the next regular June meeting upon the feasibility and advisability of establishing in that Department a School of Political Science, to include instruction in Political Economy, International Law, Constitutional Law and the History of Political Institutions, the general Constitutional History of the United States and England, the History and Principles of Finance, and Sanitary Law; and that said Committee be instructed to report what additional instruction now not provided in the University, and what additional cost will be necessitated by said proposed school, and in case said committee shall recommend the establishment of such a school, to propose the outline of a plan for its organization, course of study, and degrees to be conferred.

The resolution was adopted by a unanimous vote.

The following resolutions were submitted by Regent Cutcheon, and by his request were referred to the Committee on the Department of Literature, Science, and the Arts, with instructions to report at the regular June meeting of the Board :

Resolved, That the title of Professor Benjamin F. Cocker be changed to Professor of Psychology, Speculative Philosophy, and

Evidences of Christianity, with a corresponding change and assignment of duties.

Resolved, That Geo. S. Morris, A. M., late of this University, be and is hereby appointed Professor of Ethics, History of Philosophy, and Logic.

Acting President Frieze presented the following resolutions, adopted by the Faculty of the Department of Literature, Science, and the Arts, at a meeting held on the 23d day of May last :

Resolved, That in the opinion of the Faculty, it is desirable to hold examinations for admission to this Department at San Francisco, St. Louis, Chicago, Cincinnati, and at some place in the east, to be hereafter designated.

Resolved, That the Board of Regents be requested to appropriate such sums of money as may be necessary to meet the expenses of these examinations.

At the close of the remarks on the resolutions read by the President, Regent E. C. Walker submitted the following resolutions, which were adopted :

Resolved, That the President and Faculty of the Department of Literature, Science, and the Arts be authorized to provide for examination of candidates for admission to this University, at San Francisco, St. Louis, Chicago, Cincinnati, and such point at the east as they may deem advisable.

Resolved, That the Auditing Board are authorized to audit and pay the necessary expenses of such examinations, for advertising and rent of room, etc.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Nays—None.

Regent Cutcheon offered the following resolution, and requested that it be referred to the Committee on the Department of Literature, Science, and the Arts, and that said committee report at the June meeting of the Board :

Resolved, That Instructor Calvin P. Thomas be and is hereby appointed Assistant Professor of German and Sanscrit, with a salary of \$1,600 a year, to begin October 1, 1881.

There being no objection, the resolution was received and referred as requested.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the sum of \$133.60 be and is hereby appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Nays—None.

On motion of Regent E. C. Walker, the Board took a recess to 4 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled in the room of the President at 4 o'clock P. M.

Present—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Regent Cutcheon submitted the following resolution, which was adopted :

Resolved, That Benjamin C. Burt, A. M., be and is hereby appointed Assistant Professor of English and Rhetoric, to rank as such from October 1, 1881, at a salary of \$1,600 a year.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Grosvenor.

Nays—None.

On motion of Regent Cutcheon, the Board adjourned.

H. D. BENNETT,

SECRETARY.

JUNE MEETING.

UNIVERSITY OF MICHIGAN, }
Tuesday, June 28, 1881. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M.

Present—Acting-President Frieze, Regents E. C. Walker, Climie, S. S. Walker, Duffield, VanRiper, Shearer, and Grosvenor.

The Board was called to order and the meeting opened with religious exercises by Acting-President Frieze.

The minutes of the last meeting were approved as printed.

The following communication from the Secretary of the Department of Literature, Science, and the Arts, was read by Regent Duffield.

To the Honorable, the Board of Regents :

GENTLEMEN,—By direction of the Faculty of the Department of Literature, Science, and the Arts, I have the honor respectfully to submit to you the following resolution :

Whereas, Mr. Edward Israel has completed all the studies requisite for the degree of Bachelor of Arts; and

Whereas, He has received from the Federal Government the position of Astronomer in one of the Polar Exploring Expeditions; and

Whereas, It will be impossible for him, in consequence of the acceptance of this position, to be present at Commencement, therefore,

Resolved, That we recommend to the Honorable Board of Regents that the degree of Bachelor of Arts be conferred upon Mr. Edward Israel *in absentia*.

P. R. B. DE PONT,

Secretary of the Faculty.

Regent Duffield stated that he held in his hand another communication from the Secretary of the Faculty of Literature, Science, and the Arts, which he read, as follows :

To the Honorable, the Board of Regents :

GENTLEMEN,—I beg leave to report that, by vote of the Faculty

of the Department of Literature, Science, and the Arts, the following persons are recommended for the degrees indicated :

CIVIL ENGINEER.

George Alfred Brown,	David E. Hoover,
Randolph Willis Brown,	George Anthony Lederle,
John William Dorst,	George Washington Lilly, A.B.,
William W. Follett,	William Clayton Miller.
John Evangelus Hathaway,	

BACHELOR OF LETTERS (B. L.).

John W. Sowden,	Louis Davenport Wight.
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BACHELOR OF SCIENCE.

William Albert Locy,	Rowland Henry Rerick,
George Hart Miner,	Thomas Carlyle Tate,
	Jean Augustus Wetmore.

BACHELOR OF PHILOSOPHY.

Festus Clark Cole,	Charles Hutchinson,
William Edward Fenwick,	Frank McNamara,
Allan Howard Frazer,	Eugene C. Nardin,
Anna Bordwell Gelston,	Delos Leonard Parker,
Fred Harris Goff,	Herbert Maury Pelham,
Maurice Major Houseman,	William Mann Thompson,
Wetmore Hunt,	Charles Arnette Towne,
	Will Turner Whedon.

BACHELOR OF ARTS.

Frank Gates Allen,	George Brown Daniels,
Sarah Elizabeth Bangs,	Benjamin Leonard D'Ooge,
Guy Maynard Bigelow,	Jane Eyer,
Frank Pardee Boughton,	David Felmley,
Willis Boughton,	George Henry Fletcher,
Edward Harvey Bowman,	Duane Edwin Fox,
Charles Taylor Brace,	Don Alonzo Garwood,
Thomas Bertrand Bronson,	Charles Watson Goodrich,
Claude Robinson Buchanan,	William Simon Hill,
Henry James Butler,	E. Harold Hilton,
George Noble Carman,	Abbie Euretta Howe,
Samuel Chandler,	Ormond Fremont Hunt,
Nellie M. Colman,	Edward Israel,
J. C. Waterson Cowley,	Frank Arthur Johnson,
Isaiah Reed Crossette,	Collins Hickey Johnston,

John Kelly, Jr.,	Harry Chase Richardson,
Homer Hitchcock Kingsley,	Louis Sax,
Charles Hannibal Kumler,	Stuart Niblo Schermerhorn,
W. Leigh Liggett,	Job Hart Scott,
Frank Chittenden Mandell,	Nellie Abby Stanley,
Alma Mansfield,	Harriet B. Taylor,
Margaret Morton,	Frank Taylor Terry,
Horace Mann Oren,	Fred Murraie Townsend,
Frederick Pynsent Partridge,	Joseph Mandeville White,
Isaac Newton Payne,	Everett Jerome Whitehead,
Moss Kent Perkins,	Samuel Laing Williams,
Charles John Reed,	Sheldon Alva Wood.

MASTER OF PHILOSOPHY.

Arthur Raymond Rood.

MASTER OF ARTS.

Arthur Gillespie Hall,	Charles Kendall Perrine, A. B.,
George Franklin Kenaston, A. B.,	John Giles Schurtz,
David Mackenzie,	Lucius Lincoln VanSlyke, A. B.,
M. Estella Norton,	Asa Devillo Whipple.
Anna Smith Peck, A. B.,	

DOCTOR OF PHILOSOPHY.

Jabez Montgomery, M. S.

Respectfully submitted,
P. R. B. DE PONT,
Secretary of the Faculty.

Regent Duffield submitted the following resolution, which was adopted :

Resolved, That the degrees as indicated in the communications just read, be conferred upon the persons named, in accordance with the recommendation of the Faculty of the Department of Literature, Science, and the Arts.

Regent Grosvenor read the following communication :

To the Honorable Board of Regents :

The following named persons, having complied with all the requirements of the Department of Medicine and Surgery, are hereby recommended for the degree of Doctor of Medicine.

A. B. PALMER, *Dean.*

William L. Axford,
 James Hanley Bache,
 Agnes Barry Barlow,
 Luke Newton Beagle,
 Sarah A. Beardsley,
 Anna Lobdell Benson,
 Joshua Stevens Blanchard,
 David Edward Bowman,
 James Brady,
 George Edward Brown,
 William B. Campbell,
 George Henry Chaffee,
 John Chase,
 Frank Chappell,
 Charles Fuller Clark,
 Alta Fremont Cook,
 Cyrenus Gavitt Darling,
 Frank Wellington Dennis,
 Alfred A. Dunton, Jr.,
 Alpheus B. Fitch,
 Edward H. Flynn,
 William Jackson Gamble,
 Arthur Alfred Gillette,
 Schuyler Colfax Graves,
 David Milton Greene,
 George William Hartman,
 Edwin Noah Hawley,
 Bertram Hazen,
 George Francis Heath,
 George Josiah Hill,
 George F. Hine,
 DeWitt Clinton Howell,
 Everett Adelbert Hoyt,
 Thomas Gerritt Haizinga,
 Charlotte LeB. Johnson,
 William Mapes Johnson,
 Robert Emmet Jones,
 D. Merouan Kelley,
 John Perry Kelley,
 John Gardner Kennan,
 Clifford Kirkpatrick,
 Edward Wallace Lee,

Lena Cornelia Leland,
 Dana Carter Lewis,
 Lorenzo John Locy,
 George Walter Long,
 Samuel Long,
 John J. Louis,
 James Byron Martin,
 Rosa Kline Martin,
 William McCarroll,
 Hiram McGowan,
 Angus J. McIntyre,
 Levi Emerson Miley,
 John Hamilton Moore,
 John A. Morey,
 Jay W. Morrison,
 David Wallace Mott,
 John Joseph Murphy,
 Robert Johnson Neal,
 John Nugent,
 Frank Henry Olin,
 Albertus Taylor Parrish,
 William Bruce Payton,
 Edgar J. Pendell,
 Charles Philip Pengra,
 Robert Samuel Phillips,
 John Levant Ramsdill,
 Daniel Washington Reddin,
 Maly Emanuel Renner,
 S. Albert Francis Richmond,
 Sidney Bennett Rolison,
 Peter D. Rothwell,
 Andrew Crosby Saunier,
 Charles Goodman Suylandt,
 John Stanford Sayre,
 E. Meredith Scarlett,
 Frank Henry Seidell,
 Fred Douglas Shepard,
 Ary Bryant Smith,
 Aaron J. Smith,
 Fletcher Stillman Smith,
 Isaac Adoniram Smith,
 Mary J. Snoddy,

J. Ada St. John,	Charles Weir,
Frederic B. Sutton,	Martin Weller,
John Freeman Summerville,	Walter Wilbur,
Martin J. Taylor,	Herbert James Williams,
Henry Harrison Turner,	Frederick Elijah Woolsey,
Fred William Vincent,	Austin Charles Wright,
James Swaze Watson,	Edgar Garrison Young.
John Elmer Weeks,	

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the foregoing communication, in accordance with the recommendation of the Faculty of the Department of Medicine and Surgery.

The following communication was read by Regent Grosvenor:

UNIVERSITY OF MICHIGAN, }
June 28, 1881. }

To the Acting President and the Honorable Board of Regents :

GENTLEMEN,—The following, students of the Homœopathic College, having complied with all the conditions and requirements of said College, and having fully completed their course in accordance with the rules regulating the same, are hereby recommended for the degree of Doctor of Medicine. By order of the Faculty,

E. C. FRANKLIN, *Dean*.

Marshall P. Austin,	Fayette D. Kendrick,
Moses N. Avery,	Lavinia D. Lambert,
Samuel E. Burchfield,	Henry L. Miller,
Henry W. Champlin,	Addison Morgan,
Daniel P. Cook,	H. Charles Penniman,
Richard G. DePuy,	Willis P. Polhemus,
George W. Dreher,	Theodore O. Potter.
Edward A. Fisher,	Llewellyn B. Richards,
John F. Flint,	Seaver C. Ross,
Albert R. Halstead,	Frederick Ruggles,
Florence B. Holden,	Edward P. Thatcher,

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the communication from the Dean of the

Homœopathic Medical College, in accordance with the recommendation of the Faculty of said College.

The following communication was read by Regent E. C. Walker :

SCHOOL OF PHARMACY, UNIVERSITY OF MICHIGAN, }
ANN ARBOR, June 25, 1881. }

To the Honorable, the Board of Regents :

GENTLEMEN,—By direction of the Faculty of the School of Pharmacy, I have to report that the persons whose names are given below have fulfilled all the requirements for graduation with the degree of Pharmaceutical Chemist, and they are therefore presented to you for that degree :

James Alexander Allen,	Charles West Parsons,
Fred Clark Bailey,	William Thomas Quayle,
Richard Bayard Bancroft,	Theodore Allard Reyer,
Charles Louis Becker,	George Willis Rood,
Charles Herman Cirkler,	Theophilus Schmid,
Ernest Egbert Gatchell,	Samuel Schmidt,
Samuel Houston Gunder,	William Arthur Sexton,
Harriet Louise Harrington,	Oscar Textor,
Charles Hugo Huhn,	Carey Winslow Thompson,
Louis Bolingbroke Knapp,	Frank Augustus Thompson,
John Hammond Loomis,	Del Delos Turner,
Clyde Clark Lovin,	Ralph McPherson Ward,
Harry Francis McCrae,	Albert M. Wheeler,
Ernest Henry Morse,	Seward Whiting Williams,
Matthias Noll, Jr.,	Oscar Lemuel Wilson,
Frank Clifford Parker,	Theodore Henry Wurmb.
Burt Parrott,	

Respectfully submitted,

ALBERT B. PRESCOTT,

Dean of the Faculty.

Regent E. C. Walker submitted the following resolution :

Resolved, That the degree of Pharmaceutical Chemist be conferred upon the persons named in the foregoing communication, in accordance with the recommendation of the Faculty of the School of Pharmacy.

Regent S. S. Walker read communications from Professors Winchell, Greene, Wead, and Spalding, which were received and referred to the Committee on the Department of Literature, Science, and the Arts.

Professor Edward Olney, by permission, addressed the Board, relative to the needs of the department of Mathematics, and recommended the purchase of additional text-books for the department. "Crelle's Journal" was mentioned as being particularly needed.

An invitation to visit the Homœopathic Medical College was received, through the Dean of that College, which, on motion of Regent S. S. Walker, was accepted.

Regent Duffield announced the presence of the Librarian, and stated that he was prepared to submit his annual report. The reading of the report was called for by the Board.

At the close of the reading of the very interesting report of the Librarian, Regent Shearer moved that it be received and referred to the Committee on the Library, with instructions to report on the recommendations contained therein at the earliest time practicable. The motion prevailed.

On motion of Regent VanRiper the Board took a recess to 2 o'clock P. M.



AFTERNOON SESSION.

TUESDAY, June 28, 1881.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—Acting-President Frieze, Regents E. C. Walker, Climie, S. S. Walker, Duffield, VanRiper, Shearer, and Grosvenor.

On motion of Regent S. S. Walker, Hon. E. D. Kinne was permitted to address the Board in behalf of the claimants of Wm. Beatty. The payment of the claims was urged both on the ground of equity and law. At the close of the remarks of Mr. Kinne, Regent Shearer presented the following resolution:

Resolved, That a committee of three, consisting of Regents E. C. Walker, VanRiper, and Climie, be appointed to report upon the legal-

ity and equity of the Beatty claim, so-called, at the present meeting of the Board.

The resolution was adopted.

Regent VanRiper read a communication from Mr. W. K. Childs, which was received, and, on motion, referred to the Committee on the Museum.

The following report was read by Regent Shearer, chairman of the Committee on Buildings and Grounds :

JUNE 28, 1881.

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, to whom, by resolution of March 23d last, was referred the matter of advertising for designs and estimates for the proposed Library building, have to report: That they advertised as directed, and on the 15th instant received three designs under the conditions of their instructions to architects, and under the names, or mottoes, of “Owl,” “Britannica,” and “Library.”

The committee met on the 15th and 16th of the present month and carefully examined these designs. They find each to possess some advantages of convenience, or of safety, or of architectural detail, that are peculiar to each. But neither of these designs seems to your committee to embrace sufficient of these requirements to be recommended for adoption entire.

They, therefore, in accordance with the advertised instructions to architects, recommend: That the authors of the three designs be awarded premiums as follows, viz: To the author of the design under the motto “Owl,” the sum of three hundred (300) dollars. To the author of that under “Britannica,” the sum of two hundred (200) dollars. To the author of that under “Library,” the sum of one hundred (100) dollars.

This, in the opinion of your committee, is the order in which these designs range for adaptability to the purposes required by the University—the safety of book-rooms—and to proper architectural detail.

The committee, under that portion of your resolution requiring them to procure estimates of cost, have assumed—before making an estimate—to so change the design named “Owl” as to embrace several improvements they deemed necessary. They therefore employed an expert for this purpose, and have to report that this design, changed

as shown by the accompanying plans for the basement and first floor, and the section through the Reading and Library rooms, can be erected and furnished complete within the sum of \$90,000; leaving a margin of \$10,000 for unforeseen contingencies.

Your committee, in view of the change necessary to be made in either of the designs submitted, have to report as within, without recommendation as to the adoption of either of the competing designs; but ask that this report be accepted, and that the recommendation as to awards of premiums be adopted.

JAS. SHEARER, }
S. S. WALKER, } *Committee.*
A. CLIMIE, }

At the close of the remarks on the report read by Regent Shearer, it was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, Van Riper, Shearer, and Grosvenor.

Nays—None.

Regent E. C. Walker moved that the “motto letters” received from architects who had presented plans for the Library building, be placed in the hands of the Committee on Buildings and Grounds, with authority to open them in the presence of the Board.

The motion prevailed.

The following resolution was presented by Regent E. C. Walker, and adopted :

Resolved, That the Committee on Buildings and Grounds be instructed to take into consideration the plans for a Library building sent from Boston, but not complying with the terms of the advertisement, and if desirable, to report to the Board in regard thereto.

A communication from the Director of the Astronomical Observatory was read by Regent S. S. Walker, and on his motion, it was received and referred to the Committee on the Museum and Observatory.

Regent Grosvenor submitted the claim of Dr. E. O. Bennett, late Physician and Surgeon of the University Hospital, for \$130. The claim was for 13 weeks’ services rendered in the hospital as nurse, from July 1, 1880, to Sept. 30, 1880, at \$10 a week.

At the close of the explanatory remarks of Regent Grosvenor, he moved that the claim be allowed and paid. The motion prevailed, by the following vote :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

A communication from Mr. Charles C. Huff was read by Regent Grosvenor. At the close of the remarks upon the communication, Regent Duffield moved that the Board do now take a recess to 8 o'clock P. M.

The motion prevailed.



EVENING SESSION.

TUESDAY, June 28, 1881.

The Board reconvened in the room of the President at 8 o'clock P. M.

Present—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

The plans for the contemplated Library building, in the hands of the Committee on Buildings and Grounds, were now submitted for the inspection of the Board. At the close of the examination of the plans, Regent Shearer submitted his views at length upon their adaptability to the needs of the University. He concluded his remarks by saying: "He must admit that of the several plans which had been received and presented to the Board all possessed merit in a greater or less degree; still he was of the opinion that neither of the plans as a whole would be adopted, without making many and very important modifications."

Regent Grosvenor concurred in the views expressed by Regent Shearer, and suggested the importance of Regent Shearer's visiting Boston for the purpose of carefully examining the matters under discussion. He desired particularly that the plan

submitted by Messrs. Ware & VanBrunt should receive careful consideration, believing it best adapted to the wants of the University at the present time. After further remarks by other members of the Board, Regent Cutcheon announced the presence of Professor C. K. Adams, who had given careful attention to the matter under discussion, and who was prepared to communicate valuable information to the Board, if desired to do so.

By request Professor Adams addressed the Board, stating fully his views relative to the plans now under discussion.

He read an interesting communication of recent date, from Messrs. Ware & VanBrunt, which contained much valuable information relative to the construction of library buildings.

At the close of the remarks of Professor Adams, Regent E. C. Walker submitted the following resolution relative to the location of the Library building, which was adopted :

Resolved, That the new Library building be located in the central part of the campus.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—S. S. Walker.

The following resolution was presented by Regent E. C. Walker, and adopted :

Resolved, That Regent Shearer, after consultation with the Library Committee and Committee on Buildings and Grounds, as to desirable alterations in the plans submitted by Messrs. Ware & VanBrunt, for the new Library building, be requested to go to Boston and arrange with said architects for a modified plan of such building, which, if satisfactory to him and the Committee on Buildings and Grounds, shall be and become the accepted plan of said Library building.

Resolved, That Regent Shearer be authorized to employ such expert assistance as may be desirable in the above matter.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

The following resolution, submitted by Regent Shearer, was adopted :

Resolved, That the Auditing Board be instructed to forward to the several authors of the competing designs, the several sums awarded by the report of the Committee on Buildings and Grounds, as follows, viz: To Samuel J. Hall, the sum of \$300; to M. E. Beebe, the sum of \$200; to E. S. Jennison, the sum of \$100.

Regent Cutcheon moved that the report of the Committee on Finance be made the special order for to-morrow morning at 8½ o'clock, and that the Board do now adjourn to that time.

The motion prevailed.

MORNING SESSION.

WEDNESDAY, June 29, 1881.

The Board reassembled in the room of the President at 8½ o'clock A. M.

Present—A full Board.

Acting-President Frieze stated that the first business in order was the consideration of the report of the Committee on Finance, which was made the special order for this hour. The report was taken up and read by Regent Climie. At the close of the discussion on the report, it was received and ordered placed on file.

Regent Cutcheon submitted the following resolution, which was unanimously adopted :

Resolved, That the degree of Bachelor of Arts in course *nunc proutunc*, be and the same is hereby conferred upon Hon. Aaron V. Mc Alway, LL. B., formerly of the class of 1868, in the Department of Literature, Science, and the Arts, and that he be ranked with that class.

The following report, relative to an increase of the annual fees of students, was read by Regent Cutcheon :

The special committee, to which was referred the following resolution, viz.:

“*Resolved*, That a special committee of three be appointed to

consider and devise a plan for securing a permanent increase of revenue for the University from fees, especially from persons not resident in the State of Michigan, and that said committee be instructed to report at the regular June meeting of the Board," would respectfully report that they have had the same under consideration, and have given the subject that careful attention which its importance merits.

That we require some permanent increase of revenue, not dependent upon special appropriations by the legislature, in order that we may retain in our service our most valuable teachers, and carry on the work of the University with a full measure of success, is too apparent to need to be enforced by any argument.

The only open question is from what source can such permanent increase be derived, that shall be under the control of this Board.

The only source that seems to be available is an increase of fees in some Departments, or a general increase to some class of students in all Departments, as indicated in the language of the resolution.

When we examine the general statutes of this State relative to the University, we find (Compiled Laws, page 1165) the following provisions:

"(3492) Sec. 12. The fee of admission to the regular University course in the department of Literature, Science, and the Arts, shall not exceed ten dollars. * * *

(3493) Sec. 13. The University shall be open to all persons resident of the State, without charge of tuition, under the regulations presented by the Regents. And to all other persons under such regulations and restrictions as the Board may prescribe."

We perceive, therefore, that the policy of the State toward the University has been, that as to resident students, that is to citizens of the State, it should be as nearly *free* in its benefits as practicable, and *secondly*, that a difference might be made between the Department of Literature, Science, and the Arts, and those Departments which are strictly technical and professional.

The reasons for this are obvious : The department of Literature, Science, and the Arts is intended for those of comparatively youthful

age, and more particularly as disciplinary in its purpose, while the professional and technical schools are designed for those more advanced in years, who have completed their disciplinary studies, and are about to enter on the actual work of life.

The one looks to the formation of mind and character; the other looks directly to the practical pursuits of life and the gaining of a livelihood.

It is presumable that when one has arrived at the age of professional study, he will be better able to pay something nearer an equivalent for the cost of instruction, than in his merely disciplinary stage.

We find, accordingly, that throughout the country higher rates are charged for professional and technical instruction than for the strictly academic, or what may be called gymnasiar, studies.

To assist us in forming our conclusions in regard to whether any considerable increase might be made in the charge, or year tax, in this University, we have investigated as to the charges in other leading institutions, both east and west; and we append the results, in tabular form, as follows :

LAW SCHOOLS.		Matriculation.	Tuition per Year.	Contingent Fee.	Graduating Fee.	Total, Two Years.
1.	Albany Law School.....	\$	\$ 130	\$	\$ 25	\$ 285
2.	University of Virginia Law School.....	30	80	10	---	200
3.	Washington University, St. Louis.....	---	60	---	---	120
4.	University of Missouri Law School.....	---	40	---	---	80
5.	Boston University Law School.....	---	100*	---	5	180
6.	Law School of Cincinnati College.....	---	60	---	5	125
7.	Columbia Law School.....	---	100	---	5	205
8.	Yale.....	---	100	---	---	200
9.	Harvard.....	---	150	---	---	300
10.	University of Wisconsin.....	50	18†	---	---	86
Average cost of two years' course, \$178.10.....		---	---	---	---	\$1781
Michigan University, non-resident.....		25	25	---	10	85

* Second year, \$75. † To non-residents.

MEDICAL SCHOOLS.	Hospital Fee, Anatomy, and Chemistry.	Matriculation Fee, An- nual.	Tuition, First Year.	Tuition, Second Year.	Tuition, Third Year.	Graduating Fee.	Total, Two Years.
1. Columbia	\$ 10	\$ 5	\$ 150	\$ 145	\$ ---	\$ 25	\$ 345
2. Dartmouth	---	5	77	77	---	25	189
3. Bowdoin	---	5	75	75	---	20	180
4. N. Y. Coll. Phys. & Surg.	---	---	160	145	---	30	335
5. Bellevue Hospital	---	---	140	140	---	30	310
6. Albany Medical College	---	---	115	115	---	15	245
7. Buffalo Medical College	---	5	100	100	---	---	210
8. Long Island Medical College ..	---	5	100	100	---	25	235
9. Chicago Medical College	16	5	75	75	---	30	206
10. Medical College of Cincinnati ..	5	5	75	75	---	25	200
11. Med. College of Columbus, O., ..	5	5	40	40	40	25	120
12. Physicians & Surgeons, Ind., ..	15	5	40	40	---	25	130
13. Yale	---	5	200	200	---	30	440
14. Harvard	---	5	200	200	---	30	440
Aggregate	---	---	---	---	---	---	\$3585
Average cost of two years' course, \$256.07.	---	---	---	---	---	---	---
Cost of two years' course in Mich- igan, non-residents	---	once 25	25	25	---	10	\$85

We see, therefore, that the average cost of a two years' course
in the ten designated law schools is.....\$178 10

Cost of a two years' course, Michigan University, non-resident
student..... 85 00
(or about one-half the average).

Average cost of a two years' course in fourteen designated
medical schools..... 256 07
Cost of two years' course in Michigan University Medical Dept., 85 00
(or about one-third the average).

In regard to the Medical and Law Schools, your committee would not recommend any change in the matriculation fee, or in the graduating fee, but we are of opinion that the yearly tax might be increased without interfering in any serious degree with the usefulness of those schools, and recommend that such increase be made to take effect from 1882.

In like manner we have made investigations as to the cost of the usual collegiate course in the leading institutions of the East and West, with the following result :

ACADEMIC DEPARTMENTS (EASTERN).					
	Matriculation Fee.	Incidentals.	Annual Tuition.	Graduation Fee.	Total.
1. Yale.....	\$	\$	\$ 140	\$ 18	\$ 578
2. Yale (Sheffield School).....	---	---	150	---	600
3. Harvard.....	---	---	150	---	600
4. Cornell.....	---	---	75	5	305
5. Columbia.....	---	---	100	5	405
6. Columbia (School of Mines).....	---	---	200	5	805
7. Dartmouth.....	---	---	90	---	360
8. Dartmouth (Chandler Scientific School).....	---	---	60	---	240
9. Amherst.....	---	---	100	---	400
10. Bowdoin.....	---	---	75	---	300
11. Princeton.....	---	---	75	---	300
12. Princeton (School of Science).....	---	---	120	---	480
Average of 12 Eastern Schools, \$418.00, nearly.					\$5373
Michigan University, non-resident. Being less than $\frac{1}{3}$ the average.	\$25	---	\$25	\$10	\$135

ACADEMIC DEPARTMENTS (WESTERN).					
	Matriculation Fee.	Incidentals.	Annual Tuition.	Graduation Fee.	Total.
1. Northwestern (Evanston).....	\$	\$	\$ 45	\$	\$ 180 00
2. University of Wisconsin.....	Free	---	---	---	---
3. Oberlin.....	---	15	9	---	51 00
4. Kenyon (Ohio).....	10	15	30	---	145 00
5. Kalamazoo (Mich.).....	5	7 50	18	5	89 50
6. Olivet (Mich.).....	---	9	21	5	98 00
7. Rochester (N. Y.).....	---	---	75	---	300 00
8. Hobart College.....	5	5	50	5	215 00
Average of 8 Western Colleges, \$134.81.					\$1078 50

It will be observed from the comparison that the cost of an Academic course at Michigan University is only about one-third of the cost at any of the really first-class colleges and universities of the country, and about the same as at the small colleges of this and the adjacent states. But when the greater number of courses offered, and the number of instructors employed, and the facilities and apparatus for instruction are considered, it is believed that the disproportion is really as great in the latter as in the former case.

We do not think, however, that so great a change is either proper or desirable, as in the case of the Professional Schools.

In considering the fees to be charged in the Academic Department, it should not be forgotten that in nearly, if not quite all the eastern institutions named there are usually a large number of schol-

arships at the disposal of the institution and its friends, so that practically free tuition is furnished to a large number who are unable to pay the regular fee charged, while we are deficient in any such scholarships, and these charges will fall alike upon all.

The same state of facts does not obtain in the Professional Schools.

The committee therefore recommend the adoption of the following resolutions:

1. *Resolved*, That the matriculation fee and graduation fee remain unchanged in all the Departments.

2. *Resolved*, That the yearly tax in the several Departments be increased as follows, to take effect in the year 1882, to wit:

Resident students, Law Department.....	\$30 00
Non-resident students, Law Department.....	50 00
Resident students, Medical Department.....	25 00
Non-resident students, Medical Department.....	35 00
Resident students, Homœopathic College	25 00
Non-resident students, Homœopathic College	35 00
Resident students, Dental College.....	25 00
Non-resident students, Dental College.....	35 00
Resident students, Pharmacy Department	25 00
Non-resident students, Pharmacy Department.....	35 00
Resident students, Department of Literature, Science, and the Arts	20 00
Non-resident students, Department of Literature, Science, and the Arts ...	30 00

B. M. CUTCHEON, *Chairman*.

At the close of the discussion on the report, Regent E. C. Walker submitted the following resolution:

Resolved, That the report submitted by Regent Cutcheon, relative to an increase of fees, be and is hereby adopted.

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Cutcheon, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Climie made a report relative to the mode of keeping the books and accounts of the University, suggesting some changes which he thought were needed at the present time.

Regent Grosvenor moved its reference to the Committee on Finance. The motion prevailed.

The following report was read by the Dean of the Department of Medicine and Surgery:

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF MEDICINE AND SURGERY, }
ANN ARBOR, June 2, 1881.

To the Honorable, the Board of Regents of the University:

In presenting the annual report of the College of Medicine and Surgery, we are gratified in being able to say that the college year just closed has been one of prosperity and success.

The lengthening of the course of instruction to three years, of nine months each, has been more satisfactory as the transition stage has become further advanced, and when it shall have been completely passed, we now anticipate that the result will be more favorable even than we had expected.

We are confident that an improvement in the professional scholarship and the practical accomplishments of those we have recommended for graduation has been made by the lengthening of the term of study and the greater facilities of instruction now presented; and we believe we are sending forth a class of practitioners of our art who will aid in causing the profession of Medicine to take a higher position of usefulness and of respect in the community.

The present Anatomical bill, passed at the late session of the Legislature, bids fair to relieve the department of much embarrassment, and to make this even more conspicuous than it has hitherto been as a School of Anatomy.

As a School of Chemistry and Histology its reputation is already established, and we are greatly desirous of making it equally conspicuous as a School of Physiology.

The work in the Hospital and Clinics has greatly increased during the past year. The number of patients examined, prescribed for, and operated upon, before the class, is between eleven and twelve hundred, between six and seven hundred of whom have been received into the hospital.

Considering that these were nearly all cases of more than common interest, many of them having defied diagnosis and resisted treatment, it must be seen that a great amount of important information has been imparted to the large numbers who have witnessed their treatment.

It can no longer be said that the clinical advantages in our School are inadequate to the wants of the students. It is the general impression that they see as great a variety of cases as can be fully profited by while pursuing their other studies.

The increase of labor which the lengthening of the term of teaching, and the greater number of students, and the greater amount of clinical and hospital work have imposed, calls for increased assistance and a slight increase of expenditure. This latter has in our requests been reduced to a minimum; as we have been able to secure those who seek their chief compensation in the experience they will obtain, and in their professional association with those whom they regard as masters in their art.

The specific requests we have to make are embraced in a series of instructions to the Dean, which will be presented.

Respectfully submitted,

A. B. PALMER, *Dean.*

On motion of Regent Grosvenor, the report of the Dean of the Department of Medicine and Surgery was received and ordered printed in the minutes.

Regent Grosvenor stated that the papers presented by Professor Palmer, contained recommendations and requests which required further time of the Committee on the Medical Department for consideration. He would therefore move that the papers be referred to that committee with instructions to report at the earliest time practicable. The motion prevailed.

A report covering the work performed in the Physiological Laboratory during the year just closed, was read by Dr. C. S. Stowell, and, on motion, was referred to the Committee on the Medical Department.

A report was read by Professor G. E. Frothingham, M. D., of the Department of Medicine and Surgery, which was received and placed on file.

On motion, the Board took a recess to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—A full Board.

A report was read by Professor Donald Maclean, M. D., of the clinical work under his charge during the year ; which was received and, on motion of Regent Grosvenor, laid on the table for the time.

On motion of Regent S. S. Walker, the Board took a recess until 8 o'clock P. M.

EVENING SESSION.

The Board reconvened in the room of the President at 8 o'clock P. M.

Present, a full Board.

Regent Grosvenor, Chairman of the Committee on Medical Department, read the following communication :

ANN ARBOR, June 28, 1881.

To the Medical Committee of the Honorable Board of Regents :

GENTLEMEN,—In order to place myself in a proper position before you, allow me to say that it was through no fault of mine that I did not finish the work required of me in the Chemical Laboratory. I applied for a table, but, owing to the fact that the supply of tables was not equal to the demand, I was obliged to remain out.

I remain, yours with respect,

C. C. HUFF.

The following paper was also read by Regent Grosvenor :

UNIVERSITY OF MICHIGAN, }
CHEMICAL LABORATORY, ANN ARBOR, June 20, 1881. }

To the Honorable, the Board of Regents :

In the matter of the qualifications of Mr. Charles C. Huff in Practical Chemistry, we recommend that the requirement be remitted in his case, on the ground of his long experience as a practical pharmacist.

A. B. PRESCOTT,

V. C. VAUGHAN,

P. B. ROSE.

To the Honorable, the Board of Regents of the University of Michigan,

In behalf of the Faculty of the Homœopathic College I will state that Mr. C. Cecil Huff has passed all his college examinations, and

that passing in the above branches fairly entitles him to be presented to your Honorable Body as a fit candidate for graduation.

Very respectfully,

E. C. FRANKLIN, *Dean*.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon Charles C. Huff, in accordance with the recommendation of the Faculty of the Homeopathic Medical College.

The annual report of the Demonstrator of Anatomy was read by Dr. W. J. Herdman.

On motion of Regent E. C. Walker the report was received and ordered placed on file.

The report of the Physician and Surgeon of the Hospital was received and, on motion of Regent Grosvenor, was ordered placed on file.

Regent S. S. Walker moved, that when the Board adjourns, it adjourn to 8½ o'clock to-morrow morning, and that the report of the Dean of the Department of Medicine and Surgery be made the special order for that hour. The motion prevailed.

Regent Duffield read a report relative to the condition and wants of the department of Physics. He announced the presence of Acting Professor Wead, and asked that he be heard in behalf of that department. The privilege was granted, and Professor Wead addressed the Board. At the close of his remarks the Board went into executive session.

At the close of the executive session, business in open session was resumed.

The following resolution, submitted by Regent Cutcheon, was adopted unanimously :

Resolved, That the honorary degree of Doctor of Laws be, and the same is hereby conferred upon the following named gentlemen, in recognition of their faithful and distinguished services as Professors in this University for a period of twenty-seven years, to wit :

ALONZO BENJAMIN PALMER, A. M., M. D.,

CORYDON LA FORD, A. M., M. D.

The following resolutions, also presented by Regent Cutcheon, were voted upon separately and unanimously carried:

Resolved, That the honorary degree of Doctor of Laws be, and the same is hereby conferred upon Edmund Andrews, A. M., M. D., a graduate of this University in the class of 1849.

Resolved, That the honorary degree of Doctor of Philosophy be, and the same is hereby conferred upon Professor George Sylvester Morris, M. A.

Resolved, That the honorary degree of Master of Arts be, and the same is hereby conferred upon the following named persons, to wit :
 RANDOLPH ROGERS,
 RAYMOND C. DAVIS, Librarian of this University.

Regent Grosvenor submitted the following resolution, which was unanimously adopted :

Resolved, That the honorary degree of Doctor of Medicine be, and the same is hereby conferred upon Professor Jonathan Taft, D. D. S., now a member of the Faculty of the College of Dental Surgery in this University.

The Board then adjourned to 8½ o'clock to-morrow morning.

MORNING SESSION.

THURSDAY, June 30, 1881.

The Board reconvened in the room of the President at 8½ A. M.

Present—A full Board.

A claim for services rendered by Miss Emma E. Bower, dispensing clerk in the Homœopathic Medical College, was presented and payment recommended by the Dean of the College.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be and are hereby directed to pay the claim of Miss Emma E. Bower, amounting to \$34.50, said claim being for services rendered as dispensing clerk in the Homœopathic Medical College.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

On motion of Regent Grosvenor, the report of Professor Donald Maclean was taken from the table and placed on file.

Regent Grosvenor moved the appointment of a special committee, to consist of Regents E. C. Walker, Duffield, and VanRiper to consider and report upon the personal charges made by Dr. Donald Maclean, of the Department of Medicine and Surgery, against Dr. E. C. Franklin, Dean of the Homœopathic Medical College.

The motion prevailed.

Regent Grosvenor read the following resolutions, and recommended their adoption :

In answer to the communication of the Medical Faculty, the Medical Committee recommend the passage of the following resolutions :

Resolved, That the Medical Faculty be authorized to use its discretion on the subject of separate lectures to the male and female students in the department.

Resolved, That Dr. W. Parmenter, of Vermontville, be appointed examiner in the Department of Medicine and Surgery for two years.

Resolved, That George F. Heath, M. D., be appointed Hospital Physician and Surgeon, to commence Oct. 1, 1881, at a salary of \$450.

Resolved, That John G. Kennan, M. D., be appointed assistant to Prof. Frothingham, and Patrick E. Nagle, M. D., assistant to Prof. Palmer, at a salary of \$200 each.

Resolved, That Geo. A. Hendricks, M.D., be transferred from the Department of Anatomy, and made assistant to Prof. Ford and Curator of the Medical Museum, at a salary of \$500, to commence with the next academic year.

The vote on the adoption of the resolutions presented by Regent Grosvenor, was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following paper was read by Regent Grosvenor :

ANN ABBOR, Mich., June 30, 1881.

The Faculty of the Homœopathic Medical College hereby recommend Dr. I. N. Eldridge, to be appointed an examiner for this department for the next two years.

E. C. FRANKLIN, *Dean*.

T. P. WILSON.

On motion of Regent Grosvenor, Dr. I. N. Eldridge, of Flint, was appointed examiner in the Homœopathic Medical College, for the next two college years.

The following communication from the Dean of the Department of Medicine and Surgery was read by Regent Grosvenor :

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN,—The Medical Faculty are under the necessity of asking for a special appropriation for Dr. Hendricks, for special services rendered in the Department of Anatomy, during the session just closed. These services were rendered on account of Dr. Ford's illness and absence. They ask for \$200.

A. B. PALMER, *Dean*.

Regent S. S. Walker submitted the following resolution :

Resolved, That the sum of \$200 be appropriated and paid Dr. Hendricks, in accordance with the request of the Dean of the Faculty of the Medical College.

Ayes—None.

Nays—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Regent Cutcheon, Chairman of the Committee on the Department of Literature, Science, and the Arts, read the following report :

The Committee on the Literary Department, to which was referred the resolution instructing them to consider and report on "the feasibility and advisability of establishing in that Department a 'School of Political Science,'" would report that they have had the same under advisement, and have conferred with those upon whom the duties of said school would principally fall.

1. The committee have no doubt as to the *feasibility* of such a school.

It is believed that we have already in the University the means of giving all the instruction that will be required for the establishment of the school.

The only additional expense involved will be, for the present at least, a small salary for a Dean of the Faculty. The duties of this office will be for a few years, in organizing and putting in operation the new school, and in bringing it properly before the people of the state and country, very onerous, and the Dean should receive a salary equal to that of Dean of the Law School.

The inauguration of the school will also involve the transfer of the principal part of the lecture duty of Professor Cooley from the Law School to the "School of Political Science." Judge Cooley would retain his position as Dean of the Law School, and would continue to give the Course in Constitutional Law in that school.

In accordance with our stipulation with Prof. Cooley, at the time he withdrew his resignation, we are bound to relieve him of such part of his duty as he shall request; and he now feels that the time has come when he must claim the fulfillment of that stipulation, by the omission of his routine lectures in the Law Course. He would, however, be willing to assume the course in the new school upon Constitutional Law, the Government of Cities, and upon the Law of Taxation.

This will necessitate the employment of a *Lecturer* to give his other courses in the Law School. This change must be made soon, in any event, and your committee believe that it will be wise to make it now in connection with the establishment of the new school, so that the University will *gain* rather than lose in prestige by the change.

2. As to the *advisability* of establishing the school, the committee entertain no doubt.

It is demanded by the new movements of political thought throughout the country. This demand is manifested by the organization of such schools at Columbia and Cornell.

Michigan University will be first in the field in the west, and we believe that it will form a very attractive feature for the young men of the great northwest.

We believe that it will draw to this University a considerable number of additional students, sufficient, we hope, to more than compensate for the small additional expense.

We believe that this school can be inaugurated at the beginning of the next Academic year.

According to the plan of your committee, the faculty of this school would, *for the present*, be constituted as follows, to-wit :

JAMES B. ANGELL, President,
International Law, Political Economy, History of Diplomacy.

THOMAS M. COOLEY,
Constitutional Law and Administrative Law.

CHARLES K. ADAMS,
Political and Constitutional History.

RICHARD HUDSON,
Political and Constitutional History.

EDWARD S. DUNSTER,
Social Science.

VICTOR C. VAUGHAN,
Sanitary Science.

VOLNEY M. SPALDING,
The Science of Forestry.

This list can perhaps be enlarged as the scheme is more fully developed. Should the Board decide to recall to the service of the University Professor George S. Morris, a valuable course in Political Ethics could be added to this scheme.

During the absence of President Angell, your committee suggest that Mr. Henry C. Adams be substituted in the Course of Political Economy; and should it be necessary to have the services of Mr. Herbert Tuttle the coming year, a Course on Comparative Politics could be added. That, however, is a question that is not vital in considering the establishment of the school.

The following courses of study would be offered, and requisite to the degree in this school :

1. The Political History of Europe from the Renaissance to the French Revolution.
2. History of Institutions in the Middle Ages.
3. History of Political Forms and Methods.
4. Political History of America before the adoption of the Constitution.
5. Constitutional History of the United States from the adoption of the Constitution to the Civil War.
6. Political Theories and Practice of the English Government.
7. Constitutional History of England.
8. Political History of the United States since the Revolutionary War.

9. Practical Questions in Political Economy.
10. The Laws of Public Health.
11. The Management of Reformatory and Penal Institutions.
12. The Science of Forestry.
13. The History of Political Ideas.
14. General Theories of International Law.
15. History of Modern Diplomacy.
16. History of Finance and Financial Theories.
17. Civil Service in Europe and the United States.
18. Elements of Constitutional Law in Europe and the United States.
19. Comparative Constitutional Law in Europe and the United States.
20. Comparative Administrative Law in Europe and the United States.
21. Theories of Taxation and Public Revenue.

To these courses (which are subject to modification in detail) can be added others, as means, or the development of the school may indicate.

The course of study in this school should cover a period of three years.

The conditions of admission should be the completion of the "required studies" in some one of the Courses of the Department of Literature, Science, and the Arts, of this University, or the completion of the studies of the second year, of some other respectable American College or University.

The degree to be given at the expiration and the completion of the course is Doctor of Philosophy (PH. D.).

Graduates of this or any other respectable College or University, may receive the degree on completing and passing an examination in those studies in which they have not already made themselves proficient. To such students the degree should not be given in less than one year; and ordinarily two years will be requisite to complete the necessary work.

Residence in this University should in all cases be required of candidates for the degree.

Your committee would recommend the establishment of the "School of Political Science," in the Department of Literature, Science, and the Arts, in accordance with the outline indicated in this report and that this scheme of courses of study be referred to a committee consisting of Acting-President Friez, Prof. Cooley, and Prof. Adams, with power to perfect the details of the plan, and when so

completed to make the necessary public announcements thereof, and that the school be organized so as to go into operation with the next college year.

Your committee also recommend that said committee be authorized to name a Dean for said school, whose salary shall be three hundred dollars, until otherwise ordered.

Respectfully submitted,

B. M. CUTCHEON, *Chairman*.

The report was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

On motion, the Board took a recess to 7½ o'clock P. M.

EVERING SESSION.

THURSDAY, June 30, 1881.

The Board reassembled in the room of the President at 7½ o'clock P. M.

Present—A full Board.

Regent E. C. Walker made a verbal report relative to the Beatty claims, and submitted the following resolution :

Resolved, That it be referred to Regent Climie, with full power to settle the claims presented against the Board, growing out of the Beatty contract.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker stated that he was in receipt of a communication from the Dean of the School of Pharmacy, which he would present during the present session.

The following communication was read by Regent Grosvenor :

ANN ARBOR, June 29th, 1881.

To the Honorable, the Board of Regents :

GENTLEMEN,—The estimate presented to the last Legislature of this state, for an appropriation for the Dental College, was made with the view of securing an amount sufficient to warrant the appointment of a Professor of Prosthetic Dentistry, in addition to the teaching force heretofore engaged. The appropriation as suggested was granted, viz.: \$6,000 a year, for two years. It now remains for your honorable body to make the appointments contemplated. The following nominations are suggested and recommended for your consideration, viz.: Dr. Wm. H. Dorrance, D. D. S., for the chair of Prosthetic Dentistry and Metallurgy; and Dr. Calvin S. Case, D. D. S., assistant in said department (or branch), at the salary heretofore paid, viz.: \$800.

Respectfully submitted,

J. TAFT, *Dean.*

Regent Grosvenor presented the following resolution :

Resolved, That in compliance with the recommendation of the Faculty of the College of Dental Surgery, William H. Dorrance, D. D. S., be, and is hereby appointed Professor of Prosthetic Dentistry and Metallurgy, at a salary of \$1,600 a year; also that Calvin S. Case, D. D. S., be, and is hereby appointed Assistant in Prosthetic Dentistry, at a salary of \$800 a year, service and salary of both to commence with the next college year.

The vote on the adoption of Regent Grosvenor's resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

Regent Shearer, Chairman of the Committee on Buildings and Grounds, made the following report :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, to whom was referred the question of telephonic connection, would report in favor of locating one instrument in the Secretary and Steward's room of the University.

JAMES SHEARER,
SAMUEL S. WALKER, } *Committee.*
ANDREW CLIMIE,

On motion, the report was received and adopted, by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following resolution was submitted by Regent Shearer, and adopted :

Resolved, That the Committee on Buildings and Grounds, by their Chairman, be, and hereby are authorized, to have all the sewerage made by contract that can be done for a sum not to exceed seven thousand five hundred (7,500) dollars. Said sewer to commence at the river and to run on the best line to the campus by a main line; and thence by branches of suitable size to the several buildings, as far as the sum mentioned will serve.

The following was the vote on the adoption of the resolution :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Shearer also submitted the following resolution :

Resolved, That the Committee on Buildings and Grounds, by the Chairman of said Committee, be authorized to arrange with an expert in building, for the work and material necessary to enable said expert to make such changes in the roof of the main building as may be required, and which will add to the strength and safety of said roof and building.

The vote on the adoption of Regent Shearer's resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following resolutions were submitted by Regent Cutcheon, and were unanimously adopted :

Resolved, That the Executive Committee be, and it is hereby instructed to confer with Prof. T. M. Cooley and arrange with him for the division of his work between the Law School and the "School of Political Science."

Resolved, That the title of Professor T. M. Cooley in the School of Political Science shall be, "Professor of Constitutional and Administrative Law."

The following petition from a committee appointed by the Common Council of the city of Ann Arbor, was read by Regent Shearer :

To the Honorable Board of Regents of the University of Michigan :

We, the undersigned committee, appointed by the Common Council of the city of Ann Arbor, would respectfully request your honorable body to grant the said city the privilege of extending mains from the water pipes on the University grounds, and the use of the water therefrom for fire protection. The Regents reserving to themselves the right to dispose of water along the line of said pipe to private consumers as they may find expedient.

Respectfully submitted,

JOHN KAPP,
W. W. DOUGLAS, } *Committee.*
A. D. BESIMER,

Regent Shearer presented the following resolution, which was adopted unanimously :

Resolved, That the request of the committee appointed by the Common Council of the city of Ann Arbor be granted, subject to the supervision of the Committee on Buildings and Grounds, with the understanding that no other use shall be made of the water than is required for fire protection, and that this right may be revoked on reasonable notice, whenever the water is required for the use of the University.

The following communication from the Dean of the School of Pharmacy, was read by Regent E. C. Walker :

UNIVERSITY OF MICHIGAN, SCHOOL OF PHARMACY, }
ANN ARBOR, June 29, 1881. }

To the Honorable, the Board of Regents :

GENTLEMEN,—The Faculty of this Department beg leave respectfully to recommend that authority be given to receive candidates for a second degree, in this School, upon the basis of the following requirements, viz.: (1) Graduates of the First Degree, of this School, who have shown that they are adapted to engage successfully in original work, in the discretion of the Faculty, may be accepted by a vote of the Faculty, as candidates for the Second Degree. Applications to

be acted upon, if possible, in the last week, or the first week, of the collegiate year.

(2) The requirement to consist in the accomplishment of original research, of an extent representing the average work of a collegiate year, and being of sufficient ability and faithfulness.

(3) The title of the degree to be Master in Pharmacy.

Respectfully submitted,

ALBERT B. PRESCOTT.

Dean of the Faculty.

Regent E. C. Walker presented the following resolution, which was adopted :

Resolved, That the request of Professor A. B. Prescott, Dean of the School of Pharmacy, be granted; and that the degree of "Master in Pharmacy," be hereafter conferred whenever the requirements for said degree are fully complied with.

Regent Cutcheon made the following report :

To the Honorable, the Board of Regents :

The Committee on the Department of Literature, Science, and the Arts, to which was referred the resolutions relating to the division of the chair of Philosophy, and the appointment of Prof. George S. Morris as Professor of Ethics, History of Philosophy, and Logic, would report that they have considered the matter intrusted to them.

They are assured that the services of Professor Morris can be secured for only one-half of the next year.

The committee recommend the adoption of the resolution referred to them, with the *proviso*, that the salary of Prof. Morris shall be \$1,100, for one-half year's service.

The following are the resolutions referred to by Regent Cutcheon, in the above report, and which were adopted :

Resolved, That the title of Professor Benjamin F. Cocker be changed to Professor of Psychology, Speculative Philosophy, and Philosophy of Religion, with a corresponding change and assignment of duties.

Resolved, That George S. Morris, A. M., late of this University, be and is hereby appointed Professor of Ethics, History of Philosophy, and Logic.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

On motion, the Board took a recess to 8 o'clock to-morrow morning.

MORNING SESSION.

FRIDAY, July 1, 1881.

The Board of Regents reassembled in the room of the President at 8 o'clock A. M.

Present—A full Board, except Regents VanRiper and Grosvenor.

Regent Cutcheon submitted the following resolution, which was adopted :

Resolved, That the sum of one hundred dollars be appropriated for the purchase of models for the Department of Engineering.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The following report was read by Regent Shearer :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, to whom was referred the matter of a sewer for the University, would report, that they employed an expert to make the necessary surveys on the several proposed lines from the campus to the river, and have to recommend the following described line as that embracing the most advantages, viz : From the campus north, on Ingalls street; thence along Catherine street to Morgan street; thence across to Oak street; thence across to Pitcher street; thence along and across Pitcher street to Hickory street; thence to the river. Or such other line as may prove better.

Which course is further shown by the plat herewith presented. This drawing also shows the sizes of the tile proposed to be used for the several portions of the sewer and its branches on the campus. The sewer can, in the opinion of your committee, be constructed com-

plete, as shown by the plat, for the sum of seven thousand five hundred (\$7,500) dollars.

The right of way has been granted by the Common Council to lay the sewer in and across the streets named. And the owners of private property have informally consented to the laying of the sewer.

JAMES SHEARER,
S. S. WALKER,
A. CLIMIE.

The following report was read by Regent Shearer, and accepted :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, who were directed to procure plans and estimates for the erection and furnishing of the Eye and Ear ward of the Hospital, and also for the Mechanical Laboratory, have to report, that Regent Climie has prepared the necessary drawings and specifications for the Eye and Ear ward, which are herewith submitted. In our opinion, the cost will be about \$2,775.

In regard to the Mechanical Laboratory, your committee recommend, that the building formerly used for a joiners shop, be turned over to the department of Civil Engineering, for use as said laboratory—instead of one thousand (\$1,000) dollars of the sum appropriated for said laboratory, and that this sum be charged against said appropriation.

In connection with this report, we would respectfully recommend, that all of the machinery be taken out of the joiner's shop and sold as soon as opportunity offers.

Respectfully submitted,

JAMES SHEARER,
SAMUEL S. WALKER.

Regent Shearer submitted the following resolution :

Resolved, That the Committee on Buildings and Grounds be, and are hereby authorized to contract with the lowest responsible bidder, for the erection and completion of the building for the Eye and Ear ward, for the Hospital, according to the plans and specifications submitted; and that the Auditing Board be instructed to procure such furniture, heating apparatus, and water connection as may be necessary, and the cost of the same be charged to the appropriation for said Eye and Ear ward.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The following resolution was also submitted by Regent Shearer, and adopted :

Resolved, That the sum of two hundred (\$200) dollars be, and hereby is placed, by the treasurer, at the disposal of Asst. Prof. J. B. Davis, of the department of Civil Engineering. Said sum to be used for the purchase of a part of the equipment of the Mechanical Laboratory, and accounted for in the usual manner, as a portion of the appropriation for said laboratory.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The following report, read by Regent S. S. Walker, was adopted :

To the Honorable, the Board of Regents :

The Committee on Museum, School of Mines, and Observatory, to whom was referred the petition for the appointment of W. K. Childs as custodian of the museum, would respectfully report, that the appointment of such an officer would be desirable, and that Mr. Childs possesses such qualifications as would render him an especially efficient officer. Your committee, however, regarding the straightened condition of our finances and the imperative calls in all other directions, would respectfully recommend that no appointment for that position be made at present.

SAMUEL S. WALKER, }
B. M. CUTCHEON, } *Committee.*
J. J. VAN RIPER, }

Regent Cutcheon submitted the following resolution :

Resolved, That Charles S. Denison, M. S., C. E., be, and he is hereby appointed Acting Assistant Professor of Mechanical and Free-Hand Drawing, at a salary of \$1,500 a year, to take effect from and after the close of the present college year.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

Regent E. C. Walker read the following report and resolutions :

The Committee on Chemical Department, to whom was referred the report of the Chemical Department, at the last meeting, recommend the following action in addition to the appointment of Victor C. Vaughan, made at the last meeting, viz.:

1st. That the salary of Assistant Professor Otis C. Johnson be fixed at \$1,600 per annum, to commence with the next academic year.

2d. That Theodore J. Wrampelmeier, A.B., Ph.C., be appointed instructor in Analytical Chemistry, at a salary of \$900 per annum, to commence with the academic year of 1881-2.

3d. That Joseph F. Geisler be appointed assistant in Qualitative Chemistry, at a salary of \$500 per annum, to commence with the academic year, 1881-2.

4th. That Lucius L. VanSlyke, M. A., Joshua S. Blanchard, M D., and Seward W. Williams, Ph. B., be appointed assistants in the Chemical Laboratory, at a salary of \$100 each, to commence with the next academic year.

Resolved, That Oscar Textor, Ph. C., be appointed instructor in Quantitative Analysis, at a salary of two hundred and fifty dollars.

E. C. WALKER,
JAMES SHEARER.

The resolutions were adopted on a call vote, as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The following resolution, submitted by Regent Climie, was adopted :

Resolved, That the salary of Assistant Professor Charles H. Stowell, M. D., be fixed at \$1,500 a year, the same to commence October 1, 1881, and that the title of Assistant Professor Stowell from this date be "Assistant Professor in Histology and Microscopy."

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

Regent Duffield presented the following resolution, which was adopted :

Resolved, That the address of Rev. J. P. Newman, D. D., be requested for publication ; that the cordial thanks of the Board of Regents be forwarded, by the President, to Dr. Newman for the said address ; and that the sum of seventy-five dollars be appropriated for printing.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be, and are hereby directed to receive proposals, by advertisement, for the erection and completion of the proposed Library building, when the design and specifications are satisfactory.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The following resolution, submitted by Regent Cutcheon, was adopted :

Resolved, That the matter of mutual criticism and detraction practiced by some of the instructors and others connected with the two Medical schools, be referred to the special committee of which Regent E. C. Walker is chairman, to report what remedy can be applied to this serious evil.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the Executive Committee and Professor Cooley be authorized to appoint a Lecturer in the Law Department to assume the duties from which Professor Cooley has been relieved.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Shearer.

Not Voting—Regent Climie.

The following resolution, submitted by Regent Shearer, was adopted :

Resolved, That the Committee on Buildings and Grounds, be authorized to appoint a superintendent for the various works to be in progress during the vacation, at a salary not to exceed two and one-half (\$2.50) dollars per day.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Shearer.

Not Voting—Regent Climie.

Regent Cutcheon submitted the following report and recommendation :

The Committee on the Department of Literature, Science, and the Arts, to which was referred the following resolution, to wit: "*Resolved*, That Instructor Calvin P. Thomas be, and is hereby appointed Assistant Professor of German and Sanscrit, with a salary of \$1,600 a year, to begin October 1, 1881," have had the same under consideration, and recommend that it be amended by inserting \$1,400, in place of \$1,600 as the salary, and that as so amended the resolution be adopted.

B. M. CUTCHEON, *Chairman*.

The report of Regent Cutcheon was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

Regent Climie presented the following resolution, which was adopted :

Resolved, That the Auditing Board be and is hereby authorized to make such temporary loans as may be necessary, not to exceed ten thousand dollars.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

The Committee on Astronomical Observatory, to whom was referred an application for additional assistance, not being prepared to report, asked for additional time for consideration and action ; which, on motion, was granted.

Regent Cutcheon moved, that when the Board adjourns, it adjourn to meet on call of the Committee on Buildings and Grounds. Agreed to.

The following resolution, submitted by Regent S. S. Walker, was adopted :

Resolved, That H. C. Allen, M. D., be continued in the College of Homœopathy as Lecturer for the coming year, at his present salary, and Richard Gay DePuy be appointed assistant to the chair of Surgery and Clinical Surgery, to serve without pay ; and that the Faculty, with the Executive Committee, be authorized to designate assistants to the chair of Practice and Clinical Ophthalmology, and to the chair of Materia Medica and Clinical Medicine—the same to be without pay.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Shearer.

Nays—None.

A communication from Dr. H. A. Baker was read by Regent Climie, which, on motion, was received and ordered placed on file.

Regent Cutcheon submitted the following resolution, which was adopted :

Resolved, That the matter of grading salaries in the Literary Department, be referred to the Committee on that Department, to consider, and report whether some plan can be adopted to prevent the depletion of our corps of instruction by drawing away some of our best men to other institutions.

Regent Cutcheon submitted the following resolution :

Resolved, That the resolution in regard to Professor Elisha Jones be taken from the table and amended by striking out the words “ at a salary of \$2,200,” and inserting the words “ without present change of salary.”

The following is the resolution referred to by Regent Cutcheon :

Resolved, That Assistant Professor Elisha Jones be, and is hereby appointed Associate Professor of Latin, to rank as such from the beginning of the next academic year, at a salary of \$2,200 a year,

As amended, the resolution of Regent Cutcheon was unanimously adopted.

Regent Cutcheon also submitted the following resolution, which was adopted :

Resolved, That Albert H. Pattengill, Assistant Professor of Greek, be, and is hereby appointed Associate Professor of Greek, without present increase of Salary.

On motion of Regent Climie, the sum of \$212.40 was appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, and Slearer.

Nays—None.

On motion, the Board adjourned, to meet on call of the Building Committee.

H. D. BENNETT,
SECRETARY.

SEPTEMBER MEETING,

1881.

UNIVERSITY OF MICHIGAN,
Thursday, September 8, 1881. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M., in special session.

The meeting was called to order by Acting-President Frieze. The roll was called, and the following Regents answered the call :

Regents E. C. Walker, VanRiper, and Grosvenor.

There being no quorum present, a recess was taken till 11½ o'clock A. M. At the expiration of the recess Regents Climie, S. S. Walker, Duffield, and Shearer appeared and took their seats. A full Board (except Regent Cutcheon) now being present, the business of the meeting was taken up.

Regent Grosvenor announced the presence of Professor G. E. Frothingham, who, he said, desired to present a matter to the Board, and moved that he be granted the privilege of stating briefly what he desired to submit for the consideration of the Board. The motion prevailed.

At the close of the discussion of the subject presented by Professor Frothingham, Regent Grosvenor moved that it lie on the table for the time. Agreed to.

On motion of Regent E. C. Walker, the Board went into executive session. At the expiration of the executive session, business in open session was resumed.

Regent Shearer submitted the following resolution, which was unanimously adopted :

Resolved, That leave of absence be granted Professor Charles K. Adams, for the term of three weeks, during the month of January next, or at such time as shall not be detrimental to the instruction given by him in the University.

A request was made by Professor Charles K. Adams, for an appropriation of \$300, to be expended for the purchase of books suited to the use of the "School of Political Science." Regent Shearer moved that the matter be referred to the Committee on the Library. The motion prevailed.

On motion, the Board took a recess to 2 o'clock P. M.

AFTERNOON SESSION.

Thursday, September 8, 1881.

The Board of Regents reassembled in the room of the President at 2 o'clock P. M.

Present—A full Board.

Regent E. C. Walker submitted the following resolution, which was adopted unanimously :

Resolved, That the Steward of the University be directed to forward forty additional copies of the University Book to the State Librarian for her exchanges.

The following report was read by Regent Shearer, Chairman of the Committee on Buildings and Grounds :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds have to report, that they received the drawings and specifications for the Library building made by Messrs. VanBrunt & Howe, architects, on August 22d, and met at the office of the Board of Regents on the 25th, following, and immediately directed advertisements to be made for two weeks for proposals for building. Your committee met again at the office of the Board on the evening of September 7th. There were two proposals received, one from Messrs. Dean Bros., of Detroit, offering to build and complete said building for the sum of \$125,305; and the other from James Appleyard, of Lansing, offering, under the same conditions, to build said building complete for the sum of \$85,375.50.

Your committee would therefore recommend, that a contract be directed to be made in the name of the Board of Regents, by the Acting President and Secretary, with Mr. Appleyard, on the approval of the Committee on Buildings and Grounds, after he deducts from his proposal—as above—the sum of \$1,241.17, allowed to the Board for changes since made.

JAS. SHEARER, }
S. S. WALKER, } *Committee.*
A. CLIMIE, }

The vote on the adoption of the report read by Regent Shearer, was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following report and resolution were submitted by Regent Shearer :

ANN ARBOR, September 8, 1881.

To the Honorable, the Board of Regents :

GENTLEMEN,—The undersigned would report, that, under the instructions of the resolution offered by Regent E. C. Walker at the last meeting, he consulted with the Library Committee, and afterward visited Messrs. Ware & VanBrunt—now VanBrunt & Howe—architects, at Boston.

Arrangements were made with the latter entirely satisfactory to himself, and to the Committee on Buildings and Grounds, for the alterations and modifications deemed advisable.

Messrs. VanBrunt & Howe are to furnish all drawings and specifications, with all working details that may be required to carry out the several works, or any modification thereof which may hereafter be deemed necessary, but are not to superintend the progress of the works.

Their agreement with the undersigned is herewith submitted.

Respectfully,

JAMES SHEARER,

Chairman of Committee on Buildings and Grounds.

Resolved, That the agreement dated July 20, 1881, relating to the proposed Library building, between Messrs. VanBrunt & Howe, architects, Boston, and James Shearer, Chairman of the Committee on Buildings and Grounds, for the Board of Regents, be, and is hereby approved and adopted, and the \$2,000 paid.

The resolution was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Shearer read the following report, which was adopted :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, who were directed to receive proposals for the construction of the Eye and Ear ward for the University Hospital, and to make a contract with the lowest bidder, have to report, that they received three proposals, of which that from George W. Scott, offering to contract for the work and material for the sum of \$2,250, was the lowest, and was accepted by the committee. A contract was made with said Scott, which is herewith submitted.

Respectfully,

JAMES SHEARER, }
S. S. WALKER, } *Committee.*

The vote on the adoption of the report was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Shearer, Chairman of the Committee on Buildings and Grounds, submitted the following report, which was adopted :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, who were directed to contract, by their Chairman, for the sewerage, and for the changes in the roof of University Hall, would report, that in accordance with the resolutions passed at the last meeting of the Board, proposals were received, and contracts were made with James Appleyard, of Lansing, Mich., for both works, as follows : For the entire completion of the sewerage, for the sum of \$7,429.90; and for the entire completion of the roof improvements, for the sum of \$2,400.00.

Respectfully submitted,

JAMES SHEARER,

Chairman of Committee on Buildings and Grounds.

The vote on the adoption of the report was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor submitted the following resolutions :

Resolved, That the sum of \$196.61 be, and is hereby appropriated for the payment of expenses incurred by Regent Shearer while acting under the instruction of this Board in procuring and perfecting plans and specifications for the proposed Library building.

Resolved, That the Secretary of this Board be instructed to prepare vouchers in the usual form, covering the amount named in the foregoing resolution, and that the amount be paid at an early day, and charged to Library building fund.

The vote on the adoption of the above resolutions was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker read the following preamble and resolution, which were adopted :

Whereas, The appointment of Joshua S. Blanchard, M. D., as Assistant in the Chemical Laboratory was made at the last meeting, and he has now declined; therefore,

Resolved, That Charles P. Pengra, M. D., be appointed Assistant in the Chemical Laboratory in his place, at a salary of one hundred dollars a year, to commence the first of October, 1881.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor read the following communication :

ANN ARBOR, July 2d, 1881.

Henry D. Bennett, Secretary :

Dear Sir,—Permit me to tender you, and through you the Honorable Board of Regents, my resignation as Matron of the University Hospital; and, in doing so, allow me to thank you and the Honorable Board of Regents for the courtesy and kindness extended to me during the past four years, while acting in the above capacity.

Respectfully, &c., &c.,

MRS. C. McMANUS.

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That the Faculty of the Department of Medicine and Surgery be authorized to employ a Matron for the Hospital of said Department, subject to the approval of the Regents.

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the purchases of chemicals and apparatus for the Department of General Chemistry be made by the Steward upon the requisition of the Professor in charge of the Department, in the same manner as the supplies are purchased for the Chemical Laboratory.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following resolution, submitted by Regent E. C. Walker, was adopted :

Resolved, That the Committee on Buildings and Grounds be, and are hereby directed to act for the Regents in all matters connected with the erection of the Library building, and to take full charge of said building in all its processes of construction and completion, until otherwise ordered.

The following resolutions, submitted by Regent Cutcheon, were adopted :

Resolved, That leave of absence be, and is hereby granted to Professor Mark W. Harrington, until October 15th, next, to enable him to do astronomical work on the Pacific coast.

Resolved, That Professor W. J. Herdman have leave of absence until October 10th, provided he makes arrangements for the performance of his duties during such absence.

Regent Cutcheon presented the following paper and the accompanying resolution :

The Faculty of the Department of Literature, Science, and the Arts find it necessary to adjust the conditions for advanced degrees

to those recently established in the School of Political Science, as it will be found impracticable and also unjust to confer the same advanced degrees on different terms in different departments or lines of study. Therefore, as by the terms of the new School, the degree of Ph. D. is to be conferred on candidates who shall have pursued certain prescribed courses for *three years* after completing what are called *required studies*, (that is, in five years after entering the University), it seems necessary that the Faculty should be authorized in like manner to offer the degree of Ph. D. to students in Philosophy, Philology, Mathematics, and Natural Sciences, on completing courses of *five years*; the first two being devoted to the so-called *required studies*. In this way the terms on which the degree is received, will be made equal and consistent in the whole Department.

Resolved, That the Faculty of the Department of Literature, Science, and the Arts be authorized to adjust the terms or conditions for advanced degrees, so that all students of the Department shall be placed in this respect on a footing of equality.

Regent Cutcheon moved that the resolution just read be adopted.

The motion prevailed.

The following resolutions, submitted by Regent Cutcheon, were unanimously adopted :

Resolved, That Assistant Engineer Mortimer E. Cooley, of the U. S. Navy, be and is hereby designated "Professor of Mechanical Engineering," in the University.

Resolved, That the title of Assistant Professor Volney M. Spalding be changed to that of "Acting Professor of Botany."

Regent Duffield read the following paper :

The Committee on the Library would recommend that the sum of four hundred dollars be appropriated for the purchase of books now needed by the new department, known as the "School of Political Science," the said books to be purchased under the direction of the Dean of the Faculty of the said school and the Acting President of the University.

Regent Duffield moved that an appropriation of the sum named be made for the purpose stated. The motion prevailed by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Van Riper, and Shearer.

Nays—None.

The following communication was read by Regent Cutcheon:

ANN ARBOR, September 1, 1881.

Hon. B. M. Cutcheon:

My Dear Sir,—I have made arrangements under which Governor Felch will lecture in my place for the coming law term, to an extent that will sufficiently relieve me there. The Governor's other duties we apportion between us for the time being. I have also a temporary arrangement which relieves me of the bulk of my correspondence and other duties as Dean.

This will enable us to make permanent arrangements with deliberation and care.

Very respectfully yours,

T. M. COOLEY.

On motion of Regent Climie the Board went into executive session. At the close of the executive session the following resolution, presented by Regent Climie, was adopted :

Resolved, That the Auditing Board are hereby authorized to make such temporary loans as may be necessary, not to exceed five thousand dollars.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None. Not present—Regent S. S. Walker.

The following preamble and resolution was presented by Regent Cutcheon and unanimously adopted :

Whereas, Since the last meeting of this Board the Reverend Erastus O. Haven, D. D., LL. D., formerly President of the University, and the venerable Geo. P. Williams, D. D., LL. D., who for about forty years has served this University as a professor, and was at one time its Acting President, have passed away from the scene of their earthly labors, and

Whereas, The University Senate have adopted the appended testimonials of appreciation and respect, which meet our approval,

Resolved, That we adopt the same as the action of this Board, and that the same be embodied in the minutes of this meeting.

The testimonials adopted by the University Senate were as follows :

At a meeting of the University Senate, held in the room of the Acting President, August 5, 1881, the following testimonial of respect for the memory of Dr. E. O. Haven, Ex-President of

the University, was ordered to be placed on the records of the Senate. It was also ordered that copies should be sent to the family of the deceased and furnished to the press for publication :

Rev. Erastus O. Haven, D. D., bishop in the Methodist Episcopal church, and an Ex-President of this University, died at Salem, Oregon, on the second day of August, 1881.

Dr. Haven held the chair of the Latin language and literature in this University in 1852 and 1853, and that of history and English literature in 1854 and 1855, and the office of President of the University from 1863 to 1869.

This Senate has received with profound grief the intelligence of his death. Cut down suddenly, almost at the beginning of the sacred duties of the high and responsible office to which he had been called by the church of his choice, while still strong and vigorous, and, to all appearance, capable of doing good service in the cause of his Master for many years to come, he has left a record of great and manifold and fruitful labors to perpetuate his memory, and to console the multitude of friends, brethren, and associates who mourn his loss.

The uninterrupted successes of his life, from the day of his graduation at Middletown to the day of his death in Oregon, were due to his unwavering faith in Christ, his indomitable energy, his ready adaptation to circumstances, his versatility of talent and breadth and variety of attainment, his prudence and tact in administration, and, not least, his remarkable facility and felicity of expression in writing, and especially in public speaking.

He was elected to many and honorable positions, involving either educational, ministerial, or literary labors, but among all the high duties to which he was called, none did he discharge with more distinguished ability than those of the presidency of this University. During the six years of his administration the attendance of undergraduates was constantly increasing, while the institution was steadily progressing in its proper work and growing in popular favor. Nor less was his administration distinguished for the internal harmony and unity promoted by his large and kindly spirit, which at the same time attached all members of the University heartily and firmly to his person.

This University will ever cherish and honor the memory of President Haven, and while it mourns his death it is thankful for the good which a kind Providence has permitted him to achieve not only here but in many fields of beneficent enterprise.

The Senate, while thus expressing its sense of the loss sustained by education and religion in the death of Bishop Haven, desires most sincerely and respectfully to extend its sympathies to the family so suddenly visited by a mysterious but wise and merciful Providence with this great sorrow and heaviest of earthly bereavements.

By order of the Senate.

HENRY S. FRIEZE,
Acting President.

CHARLES K. ADAMS, Secretary.

At a meeting of the University Senate, held September 5, 1881, the following memorandum, relative to the death of Professor George P. Williams, was ordered to be placed in the minutes :

With profound emotions the Senate of the University has received intelligence of the death of its oldest member, Professor George Palmer Williams. Yesterday, at sunrise, he expired without a struggle, at the ripe age of seventy-nine years and four months.

By this death is severed the last of those living links that connect the present condition of the University with its earliest history. Appointed to a professor's chair in 1841, Dr. Williams welcomed the first student that came to Ann Arbor for instruction; as President of the Faculty, he gave diplomas to the first class that graduated; and from the day of his appointment to the hour of his death his official connection with the University was never broken.

During the whole of this long term of educational service many qualities of a high order shone out with peculiar luster in the life of Dr. Williams.

His loyalty and devotion to the University were without reserve; his faith in the principles on which the institution is founded was unflagging; and the interest with which he watched the various phases of its development ended only with the approach of death. On the last day of his life his conversation frequently turned upon its condition and its interests.

In his intercourse with his colleagues he was remarkable for the dignified courtesy of his bearing, the hearty warmth of his greetings, and the radiant humor of his conversation. His wit was proverbial; but it was so free from the bitterness of malice and the stings of sarcasm that it was always a source of pleasure, never a source of pain. To meet him was always a pleasure; to take his hand always a satisfaction.

But it was in his relations with his pupils that the peculiar qual-

ities of his nature were most marked. In extraordinary measure he impressed upon them his own character. Of the hundreds that sat under his instruction many, perhaps, have forgotten the science he taught; but there is probably not one that does not feel that he was made better by his friendly admonition or his fatherly advice. His bearing was felt to be a rebuke of every mean act. His interest in all his pupils had the gentle qualities of a personal and almost a paternal fondness; and hence it was but the natural and spontaneous expression of his heart that even to the end of his life he spoke of them all as "his boys." By his boundless sympathy and his fatherly interest many a wayward youth was turned into the path of true advancement; and there are not a few who look to his words and his influence as the beginnings of a new life. There are some who, if they would, might say with Samuel of old: "Thy gentleness hath made us great."

As the intelligence of the death of Dr. Williams goes over the country, it will fall upon hundreds of hearts with the shock of a personal bereavement. Probably in every State in the Union there are those who will mourn his loss; but there is not one of his pupils who will not remember the lofty nobility of his character and the all-embracing charity of his affection, and who will not rejoice that it was his privilege to sit under the instruction of so true a friend and so good a man.

We extend our hearty sympathies to the family of our friend in the hour of their bereavement; and we desire in a body to join with them in the last sad tribute to his earthly remains.

The following resolution, presented by Regent S. S. Walker, was adopted:

Resolved, That the legal representative of the late Rev. George P. Williams, Emeritus Professor of Physics in the University, be and is hereby authorized to sign the pay roll for the salary of the quarter ending September 30, 1881.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None. Not present—Regent Climie.

Regent S. S. Walker submitted the following resolution, which was adopted:

Resolved, That the superintendent of the construction of the new museum cases be requested to furnish the Board at its next meeting with a full and accurate report of the cost of the construction of the same, together with a full statement of the account in all particulars.

Regent Climie submitted the following resolution, which was adopted :

Resolved, That the sum of \$97.20 be appropriated for Regents' expenses.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None. Not present—Regent S. S. Walker.

On motion the Board adjourned to Tuesday, September 27, 1881, at 10 o'clock A. M.

H. D. BENNETT,
SECRETARY.

ADJOURNED MEETING,

SEPTEMBER, 1881.

UNIVERSITY OF MICHIGAN,
Tuesday, September 27, 1881. }

The Board of Regents convened in the room of the President in adjourned special session, pursuant to adjournment, at 10 o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Climie, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

On motion of Regent Grosvenor, the reading of the minutes of the last meeting was dispensed with.

Regent E. C. Walker presented the following resolution, which was adopted :

Resolved, That the title of Professor Dorrance be, "Professor of Prosthetic Dentistry and Dental Metallurgy."

That the title of Dr. Hendricks be, "Curator of the Medical Museum of the Department of Medicine and Surgery."

That the title of Dr. Heath be, "Resident Physician and Surgeon in the University Hospital."

On motion of Regent S. S. Walker, the Board went into executive session. At the close of the executive session, the business of the meeting was resumed in open session.

The following resolution was submitted by Regent VanRiper, and was adopted :

Resolved, That it is the judgment of this Board that the graduates of Orchard Lake Military Academy should be admitted to the University on their diplomas, without formal examination, upon the same conditions as graduates from our graded and Union Schools.

Regent Grosvenor submitted the following resolution :

Resolved, That the President and Secretary be authorized to contract with James Appleyard for the construction and completion of the Library building, upon the bid and schedule made by him, after verifying the schedule and correcting all errors that may have been made in computations and extensions.

The vote on the adoption of Regent Grosvenor's resolution was as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion, of Regent Grosvenor, the Board took a recess to 2 o'clock P. M.



AFTERNOON SESSION.

Tuesday, September 27, 1881.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—A full Board, except Regent Cutcheon.

Acting President Frieze stated that his annual report had been prepared, and was held subject to the order of the Board.

The report was read, as follows :

To the Honorable Board of Regents :

In presenting the report for the academic year just closed, my first words must be those of thanksgiving to the Author of all good for the continued and increasing prosperity of this University. The institution which in its first catalogue numbered fifty-three students, enrolls in the calendar of its fortieth year fifteen hundred and thirty-four. In the forty years of its existence it has met with many perils; but it has been brought to the end of them all, not only in safety, but with improved vitality and strength. We cannot hope that no storms await us in the future; but we can trust with confidence that the University, having passed safely through the dangers of her infancy, will now, in her mature strength and vigor, meet all perils unharmed. Yet if there is one thing which more than any other animates the friends

of the University with hope and confidence in its stability and advancement, it is the resolution, I may say the stern resolution, manifested by the people to elect to the regency none but men of eminent dignity and worth; none but men of distinguished ability and of large experience; men well known, not only to the State, but to the country; men nominated to this high office, not through any influences of selfish ambition or personal interest, but with the sole and single purpose of promoting the welfare of an institution that the State recognizes and cherishes as one of the vital parts of the commonwealth.

The last academic year has been fortunate on account of renewed manifestations of the favor in which the University is held by the State, on account of largely increased attendance, and on account of internal progress accompanied with order and industry.

In my last report your attention was called to several pressing needs of the University, the most urgent of which was a new building for the accommodation of our General Library. You were already too familiar with the inadequacy and unfitness of the apartment at present employed, to require any proof from the Faculties of the necessity of a change. But statements and arguments were needed with which you might be able to convince the Legislature that a real necessity existed, and that a large appropriation for this object could be reasonably asked for. Such statements were furnished by the Committee on the Library, by the Dean of the Law Faculty, by the Professor of History, and by the Librarian; and these in the hands of the special committee of the Board, together with its own presentation of the subject to the legislative committees, secured to us a favorable hearing, and an appropriation of the whole amount asked for.

This appropriation, with the addition of others, some of which were for special purposes, and others for the support of schools already created by virtue of legislative enactments, made the munificent amount of \$160,000. When the representatives of the people respond thus generously to the appeals of the State institutions, we feel that there was justice in the remark of the lamented Governor Bagley, that the University could safely rest on the bosom of the State.

Proper steps were immediately taken by the building committee of the Regents to obtain plans and specifications for the proposed Library Building; and the design which has been finally adopted, that of Mr. Van Brunt, of Boston, an architect eminent for successful experience in planning and constructing buildings of this kind, is confidently believed by all who have examined it with care, to be admirably adapted to the peculiar wants of this University. It is gratifying to add that the proposition which has been accepted by the Board from one of the most experienced and most trustworthy con-

tractors in the State, brings the cost of the building completely within the amount appropriated; a result that is the more gratifying, as fears have been frequently expressed that a building in every respect such as was needed could not be erected within the limits of the appropriation. The foundations will be completed during the present season, and it is hoped that the new building will be ready to receive the library at the opening of the first semester of 1882.

Of the other improvements on the grounds of the University, provided for by the minor appropriations above spoken of, the Eye and Ear Ward, to be added to the University Hospital, will be in readiness for the work of the ensuing semester; and the sewer, designed to give effectual drainage to the campus by connecting it with the river, is in rapid progress.

By another enactment of the Legislature, the University Hospitals are authorized to afford accommodations to sick and diseased children brought for treatment from the State School at Coldwater.

Turning now to the internal operations of the University, I note first the organization of the new School of Political Science. I regard this step as one of great significance, on several accounts. First, it adds to the various courses of training in the University one that is loudly called for by the circumstances of the State and country. Precisely where government touches us most nearly, where our personal interests and conveniences are most affected by it, that is, in the subordinate and minor functions of administration, there we are continually suffering from the ignorance and unfitness of officials. Proper training for the duties of the public bureaus and of the civil service in general, is a necessity the more deeply felt as the business of the government becomes more extended and more vast and complicated. In some European countries, particularly in France and Germany, provision has long been made for this branch of education. One of the earliest schools of this kind, if not the oldest, was organized in the University of Tübingen. I became well acquainted, when residing in that city ten years ago, with the Dean of the Faculty of this school, who was also in charge of the department of "Forest-culture," or "Forestry," in the same school. And I observed that the work of this Professor and of his Faculty had a more immediate and practical bearing on the social interests of the kingdom in which it is situated, than any other department of that University. From no other Faculty, at least, does the community derive more immediate and real benefit. The successful experience of other lands assures us of the advantages to be derived from the organization of such schools in American universities, and encourages us to believe that in our own case, we are taking a step in the right direction. It may turn out,

indeed, that education and fitness will have no more to do with civil appointments in the future than in the past, and that schools of Political Science, so far as they have a professional or technical character, in aiming to train men for the civil service, will secure a state of things no better than that which already exists. Let us hope, however, that public opinion will at length demand a reform.

But, second, this School has another object in view quite as important as the improvement of the civil service, and of no less general interest. It would be a grave mistake to suppose that its purpose is to educate exclusively and specifically for the public service. It aims to give its students a large and thorough preparation for the duties that will devolve upon them as citizens and members of society. It opens to them a wide range of history, wherein they may learn to estimate aright the conditions either of social good or of social evil, the conditions of national prosperity or of national ruin. The courses offered to them in jurisprudence, in constitutional law and history, in legislative and parliamentary forms, and in administrative methods and usages, are designed to fit them for those public duties to which every citizen is liable to be called. There are also studies in political economy and international law, and studies in sanitary science, all combining with the rest to make up a course of advanced and practical education which can hardly fail to make of those who pursue it to the end, intelligent and useful citizens and members of society.

Third, the condition which requires that those who enter upon these studies shall have previously completed all the required studies of some one of the Academic courses, in other words, shall have reached the end of what is commonly termed "the Sophomore year," will have the effect to make that period, so far as relates to this School, the point of separation between the secondary and the higher, or university education. And, therefore, very properly, it seems to me, the degree which the student receives on passing the final examination of this School, should be the distinctively university degree of Doctor of Philosophy.

Fourth, it necessarily follows that the same period should be adopted as the point of separation between the required or secondary work and the advanced or university work in all other branches or departments of study; that is, in philosophy, in philology, in literature, and in the mathematical and natural sciences, not less than in the political and economical sciences. The same point of departure has already been established in the School of Engineering. It also follows that all these other advanced courses of study, just as in the School of Political Science, should end in the higher degrees.

Fifth, as a logical consequence, these several classes of advanced or university courses would be grouped or associated according to their affinities, and conducted by special Faculties, organized, like that of Political Science, in connection with the Department of Literature, Science, and the Arts. The studies in Civil, Mining, and Mechanical Engineering, are already grouped in this way, and the officers in charge of them are virtually a Faculty of a School of Engineering. The other classes of studies would naturally be combined, according to the usual university classification, under Faculties of Philosophy and of Science. The Department of Literature, Science, and the Arts would thus, without losing its unity, or changing its general organization, be subdivided and organized for specific University work, so as to constitute four special Faculties; namely : a Philosophical Faculty, a Scientific Faculty, a Faculty of Engineering, and a Faculty of Political Science. Such, in fact, is the division of studies and Faculties already existing in some of the best universities of the world. Nothing, I believe, can better promote the proper work of the University, give more efficiency to its teaching, and more rapidly secure to it the character to which it aspires, than the completion of such an organization.

Is it wise and proper to terminate the secondary or gymnasial training at the end of the second Academic year? Is it right to confer an advanced or university degree after three years of university work, or, as things now are, at the end of the fifth year of residence? *These questions must be answered with reference to the educational system of Michigan.*

If there existed in this country a national system of education, the time and attainment necessary for the successive stages of that education would be fixed by the laws of that system. But as there is no national system, and as very few even of the individual States have any complete system, the State of Michigan, which has aimed from the beginning to build up and maintain a complete system of public instruction, must establish for herself all the conditions of progress in that system through all the successive stages from the first to the last. The question for us, then, is, where and when in the *State system of Michigan* should secondary or prescribed education terminate, and where should the special or higher university work begin? In France the secondary education ends with the Lyceum, when the student has reached his eighteenth or nineteenth year; and it is then that he receives the Bachelor's diploma in letters or science. For in France the title of Bachelor of Arts is not employed. In Germany it is the Gymnasium which performs the whole work of the secondary education. At the age of nearly nineteen the student proceeds from the Gymnasium to the University, and

immediately enters upon professional or special university studies. In our State system the High School comes quite near to the French Lyceum in its work of secondary instruction. It leaves the graduate one year short, perhaps, of the attainment of the graduate of the Lyceum, and still farther behind the graduate of the German Gymnasium. If it were possible to add one year to the course in our High Schools, the secondary work could be completed in these quite as perfectly as in the French Lyceum, though less perfectly than in the Gymnasium. And if such an advancement could be made in the work of our High Schools, the work of the University would be much more effective, not to say much less expensive. Also, the State system would thus be made perfect; the High Schools assuming the whole of their proper work, that is, the secondary education, and the University being relieved of all that is not strictly of a University character. Thus, the youth of our State, completing their prescribed studies in the High School at the age of nineteen or twenty, would enter at once upon the studies that lead to the higher degrees.

But it is not probable that our High Schools will add to their courses that part of the secondary work which at present is done by the University. The prescribed or "required studies" for many years to come will be completed in the first two years of residence at the University.

The answer, therefore, to the first question is this: in the Michigan system, for the present at least, the secondary education must be completed, not in the High School, but in the University; and end with the "required studies," or about two years after matriculation. The age at which the youth of Michigan pass from the secondary to the higher work in the University is a little upwards of twenty. Thus they are about two years older than German students at the same stage of education. There is, therefore, no reason to fear that in giving our students at this point perfect university privileges, that is, perfect freedom of choice in studies and amount of work, we incur any risk of lowering the standard of the higher education. Unless, indeed, our American youth are supposed to have so much less capacity for attainment, and so much less maturity of judgment, that they cannot be trusted at twenty or twenty-one with the freedom accorded to the German student at eighteen or nineteen.

And what an immense advantage would be secured to our public instruction, if this same stage of advancement were established as the line of separation, not only between the secondary and the higher education in literature, science, and philosophy, but also between the secondary education and that of the professional schools; if these latter were to require all candidates for professional degrees to complete some one of the four plans of required studies in the High School and

University, generally embracing the first two years of study in the Literary Department, before entering upon the work of the technical or professional school. Our system would then be complete and systematic. The professional education would then stand where it ought to have been placed at the first, on the same level of intellectual attainment as that of the Literary Department. Whether prepared in the classical or non-classical courses of study, the students of all Departments of the University would have passed through the same period in preliminary training, completing some form of secondary education, and, at the end of their university work, would have reached a degree of attainment equal in amount, however different in kind.

If this amount of attainment, and this only, were required, no injustice or hardship could possibly be complained of on the part of candidates for the professional degrees. Such a requirement would be entirely reasonable, if we consider the opportunities afforded by our preparatory schools, and by the first two years of the Academic Department of the University. To demand more than this, that is, to require of the professional student a preparation of four years in "college," after the work of the grammar and high schools, I think, would be injustice and hardship.

And just here, no doubt, our traditional collegiate course of four years was ill-adapted to the educational circumstances and wants of the country; or, at least, to those of Michigan. Our youth could not be expected, in a region but recently settled, and still imperfectly developed in resources and industries, where all the circumstances of life stimulated the new population to intense activity, to devote more years to scholarly preparation than are asked of the youth of Germany, England, and France. If long years of study can be properly demanded anywhere, preliminary to the special training for the professions, certainly it would be of the youth of those older countries, where men have abundant leisure, rather than in these western lands, where "time is money." But the German youth regularly enter upon their professional studies in the University at the age of eighteen or nineteen.* How, then, can our Michigan student be expected to wait until he is twenty-four? But this would be the case, if he were not permitted to take up the study of Law or Medicine before the completion of the four years of college work preliminary to the Bachelor's degree. The American student, particularly the western student, of average means and opportunities, could not comply with such a requirement, if it existed. Medical and Law Schools cannot justly

* See Matthew Arnold: *Higher Schools and Universities in Germany*, page 9.

demand it. It cannot be insisted upon even by Schools of Theology. Hence, a large majority of the students in our professional schools, and especially in our western schools, are admitted either with very slight academic preparation or without any preparation whatever. The professional schools cannot be excused for admitting students without respectable preparation. They should insist, at least, upon that afforded by the High School; but they cannot be censured for not requiring a preparation of four years in addition to that of the High School.

If we were just entering upon our history as a State, just laying out the plan of our public education, in the light of past experience, and with the prospect of unlimited means, we should probably agree upon a system substantially as follows. There would be primary, grammar, and high schools, with studies well systematized, uniform in their grade, and logically progressive. As experience shows that the secondary education, if left entirely to either local action or private enterprise, is always unstable and unequal, the State itself should make provision in the constitution, just as in the case of primary schools, so also for the aid of high schools, by contributing to every city or combination of districts which will organize such a school, a certain proportion of the expense from the public funds. These high schools would embrace in their courses all the legitimate work of the secondary education. They would do work of the same grade as that of the French Lyceum or of the German Gymnasium; only somewhat more varied and comprehensive. If any Bachelors' degrees were conferred, they would be conferred at the end of this secondary course, as in France. If not conferred at this period, I would follow the German schools in omitting them altogether. Our Michigan student thus prepared in the high school work of six or seven years instead of three or four, as at present, and with his certificate of proficiency, either in classical or non-classical required studies, would enter with equal advantage either of the Departments of the University. The University, as now, would be the key-stone of the system; but it would be no longer encumbered with any of the work of secondary education. All its resources, all its labor, would be expended upon the legitimate work of a genuine university. In general the minimum of residence at the University required for a degree would be three years, as at Oxford or at Leipzig, instead of four, as at Harvard and at Yale; and the degrees conferred would be those that properly mark the close of university studies and successful examinations: the Master's degree in Arts, the Doctor's degree in Philosophy, and those which are called professional degrees. Of course, in the general plan of education for the State, provision should be made for Normal

Schools, and for Industrial Schools, unless such were to be embraced in the University itself.

If some such comprehensive and harmonious scheme could have been adopted at the beginning, especially if that part of it which relates to high school work and the University could have been adopted, and if all Departments of the University could thus have been guarded forever against the evils of inadequate preparation, we might, indeed, at least for a time, perhaps even to the present time, have seen much smaller numbers entering our halls and bearing away our diplomas; but the results of our work in all Departments, and as a whole, would have been more uniformly solid and satisfactory, and have told more effectually upon the culture and intellectual advancement, as well as upon the social well-being, of the large community which is reached by the influences of the University. This is what might have been. The failure to make such a cautious beginning of work, so as to admit, at the very first opening of the professional schools, only such students as could pass a reasonably severe examination, is, no doubt, matter of regret in many institutions besides this; but few, however, are taking such efficient steps to retrieve the error.

The University, while inheriting the large amount of work in secondary instruction, entailed upon it, not indeed so much by the fault of the State pioneers, as by the habits of the times and the power of existing traditions, not to say the authority of old institutions, is gradually reducing this secondary work to a minimum, and enlarging her higher work in the way of original research and production. And not the least encouraging movement is that of the professional Faculties, not only in greatly extending the time, and elevating the requirements for their diplomas, but also in instituting entrance examinations requiring at least some degree of school preparation for admission. This examination will be more exacting from year to year, and we hope the time will come when an amount of attainment will be insisted upon here, such as we now propose as the condition of entering upon the courses for all higher degrees; that is, the preliminary or secondary education attained by our students at the end of the second year of the Literary and Scientific courses. I trust that all the Faculties of the University and all who have any authority or influence in the institution, will recognize the wisdom and necessity of this movement, and heartily coöperate in raising the preparation for admission, as well as that for graduation, in all Departments and Schools throughout the University, to one and the same level. It is a great pleasure to see large numbers thronging our doors,—we cannot deny it,—but we should endeavor to put a higher estimate upon good work, and think less of numbers.

Is it proper and creditable to confer the higher degrees and the degree of Doctor of Philosophy after a residence of five years at the University? This was the second question suggested by the conditions of admission and graduation proposed by our new School. I scarcely need remark, in the first place, that the answer to this question depends very much upon what is required and accomplished in these five years; upon the amount of work exacted, and the attainment ascertained by stringent examinations. If the attainment made is proved to the satisfaction of intelligent, competent, and faithful examiners to be sufficient, the degree can properly be conferred, not only after five years' residence, but even after four, or less; if these conditions be not observed, if the attainment be not proved, the degree is good for nothing even at the end of ten years or of twenty.

What are degrees, and what do they signify? They were first introduced into the mediæval universities, as titles, not of honor merely, but in a quite literal sense. Master and Doctor both signified teacher. The title bestowed indicated both the ability and the authority to teach. The original degree was that of Doctor of Laws, instituted at the University of Bologna in the twelfth century. The University of Paris soon adopted this, and also added the degrees of Doctor of Divinity, Doctor of Philosophy or Master of Arts, and Doctor of Medicine. The universities of England and other countries followed the example of France and Italy, and made these degrees the certificates of proficiency in the studies of the several Faculties. The degree of Bachelor was introduced to mark the close of the education preliminary to the special studies for the degree of Master. The title of Master was synonymous with that of Doctor.* In the course of time, the universities of France and England ceased to use the title of Doctor of Philosophy, retaining only that of Master of Arts, while Germany either gave up the latter title, or embodied it in the diploma of the Doctor of Philosophy. Meantime, the university degrees had lost their original significance as certificates of ability and authority to teach, and had come to certify only that the graduate had made the required attainment and passed his examinations in the specific work of the Faculty granting the diploma. In time, also, the practice was introduced of conferring all these titles, excepting that of Doctor of Medicine, upon persons of distinction, without examination, and as tokens of esteem and honor. In Germany and England the degrees in arts and philosophy, the "Bachelor" and "Master of Arts," and the "Doctor of Philosophy," have had widely different histories. In the English Universities the candidate for "Bachelor of Arts" goes

* Doctor Philosophiæ Liberalium Artium Magister.

through all the essential studies and examinations of the university education, and obtains all the honors; leaving the "Master of Arts" almost an empty title, and without additional significance.* In Germany, on the contrary, and I think, fortunately, the "Bachelor of Arts" long ago disappeared, and all successful examinations in letters, science, and philosophy, are certified by the diploma of Doctor of Philosophy.

Thus, at the English Universities the Master's degree has long ceased to be conferred as the immediate reward of study and successful examination; it is given "in course," as we express it, three years after the Bachelor's degree, and with the three conditions of not dying in the meantime, of keeping one's name on some college register, and of paying the regular fee.† But the degree at Oxford and Cambridge has this value, that after it is paid for and received, the Master has the right to vote in the University convocations.‡ This practice of the English Universities of conferring their highest literary degree without study and examination, three years after graduation with the lower degree, was adopted by all the colleges of America, and is still very generally retained. Here, however, it seldom confers, as at Oxford and Cambridge, any suffrage in college affairs, and, except in those few institutions which have ceased to bestow it on the mere conditions of existence and the payment of the fee, and demand work and examination, it is a perfectly empty title.

* "Preparation for the degree of Bachelor in Arts is the principal end of the present university studies." Huber and Newman, *English Universities*, Vol. II., page 353. "These degrees [in Arts] are two, those of Bachelor and Master. The former of these only is obtained by examination, the latter is a mere matter of time and money." Rogers: *Education in Oxford*, page 30.

† "Those who are afterwards [after being graduated Bachelors] desirous of taking their Master's degree have only to keep their names 'on the College books,' and to present themselves again after a lapse of three years and a residence at the University of about three weeks."—Huber and Newman II., page 353. "The degree of Master of Arts, which may be taken three years after that of Bachelor, provided the name of the Bachelor is continually on the books of some College or Hall during the interval, and the dues to the University or College are paid, is a mere affair of money. It costs 12*l*."—Rogers, page 47. *The increased facilities of travel afforded by the railways have increased the number of Masters' degrees conferred at Oxford.*—See Rogers, page 80.

‡ "This Assembly [the Convocation] consisted originally of the real Teachers and Heads of the Houses; but all its functions were soon imparted with the Master's degree to a great number of persons who had no connection with the academic teaching or discipline."—Huber and Newman, Vol. II., page 143. "All the powers and franchises of the University are lodged in Convocation, that is, the Masters of Arts and Doctors," etc.—Rogers: page 47.

Two facts are quite evident : the Academic degrees both in England and in America have lost much of their significance and dignity ; and this loss or want of significance is not originally chargeable, as many suppose, to the younger or western institutions of America, but to the practices and the example of the older and more venerable universities both of England and America.

The University of Michigan was one of the first to abandon the giving of the second degree on the easy terms established by tradition. After reasonable notice to the Alumni we ceased to give the degree of Master "in course," and now make it the certificate of actual attainment.

I now think it would have been just and wise to have substituted the title of Master for that of Bachelor at the end of the old established four years' course, and to have given up altogether the title of Bachelor. This latter, as we have seen, carries with it in England and almost everywhere in America, the degree of Master * The very fact that the Faculties have so universally regarded the conferring of the Bachelor's diploma as a guarantee and pledge of the Master's, is an acknowledgment on the part of the very highest authorities that the Bachelor's attainments are all that can be demanded for the Master's degree ; in other words, an acknowledgment that the Bachelor's diploma has usurped the place of the Master's. If they have come to be absolute equivalents, certainly one of them is superfluous. Only one is genuine ; the other is a sham. Which of the two should have been set aside ? Undoubtedly that which has been thrust forward beyond its original and legitimate place. Undoubtedly, in justice, and even honesty, the candidate should have received, immediately on passing his final examination, that Master's certificate or diploma, which three years later the authorities publicly acknowledged he had fairly won.

About thirty-five years ago, that eminent educator and college president, Doctor Francis Wayland, after long and earnest study both of English and American colleges, and of their present deficiencies, in considering the matter of academic degrees came to this very conclusion : that the Master's degree should be given at the time when it was virtually acknowledged to be due ; namely, at the time when the candidate received that Bachelor's diploma which was held as a kind of mortgage security for the second degree. If no additional study and examinations were required for the Master's degree, certainly, said he, it must be that the Faculties had found the Bachelor's qualifications all sufficient for both degrees.

* See Matthew Arnold, page 230.

Why, then, require him to wait three years for that which the whole college world regarded as already justly due? Why not at once give him the distinction which he had deserved, and which could never be of so much significance and help to the graduate as at the moment when he launches from college into the great world? And so Dr. Wayland promulgated his belief, and made the proposed innovation in the University over which he presided. But the proposal to depart from the old tradition, and to get rid of an absurd practice, met with clamorous opposition from all conservative collegians. The Master's degree, which was everywhere conferred for the price of the parchment, would lose its importance and dignity. What, cheapen the Master's degree! President Wayland, who devoted his life to the advancement of academic education, in proposing to make this degree mean something instead of absolutely nothing, was lowering its value! Unhappily he cast his good and great ideas upon a rugged soil of prejudice, and they failed to bear fruit. He was in advance of his time, and he died too early. One of his ideas, that of establishing co-ordinate courses of study by the side of those fixed by custom, made its way to this University in its early days, and was embodied in its organization in 1852. Well would it have been if his solution of the question of degrees had been adopted at the same time. Then should we have had an incentive continually operating to bring up our work to a university standard; to elevate the style and tone of our teaching and scholarship towards the ideal held up before us by the requirements of a genuine Master's degree. For that degree would have been used no longer like some old ensign kept for show amidst other antiquarian rubbish, but would have stood at the summit of our pathway with the motto, "Come up higher."

And this is precisely what Germany has done. This is precisely the position and influence of its academic degree. Retaining the title of Doctor of Philosophy in preference to that of Master of Arts, Germany has made it the symbol of the best and highest education in her power to bestow, within the average period of life to which education is necessarily, naturally, and historically limited. This symbol of the highest attainment has not and cannot have any absolute value. A hundred years ago it indicated a lower degree of acquirements than that of which it is the exponent at the present day.* Held up as the standard of the most advanced education, it has advanced higher and higher with the development and advancement of the whole educational work.

* Matthew Arnold, pages 46-47.

And such is the proper and logical course for every country and every state to pursue; and such a course, without the least doubt, should be adopted by us in Michigan. We must fix the right degree in the right place. We must fix upon a highest degree, and make it mean, as the German Universities did a hundred years ago, and as they do now, the best and highest education in our power to bestow. Then can we gradually build up the work, as they have done, to higher levels, and the academic symbol or degree, which indicates the excellence of that work, will always stand relatively in the same place; will always be rising in worth and dignity with the character of the education of which it is designed to be, not, indeed, the reward, but the true and trustworthy certificate.

The effort of two or three universities in America to give the Master's degree a real significance, by awarding it only for "post-graduate" studies, cannot avail to alter its general value and dignity determined by the usages of Oxford and Cambridge and the multitude of colleges and universities in America. In short, what the Bachelor's degree is worth the Master's is worth.

And while the Master's degree is thus given almost everywhere "in course" and *of course*, it can hardly be expected that the offer of the same degree as an inducement to severe post-graduate study, can tempt any considerable number of candidates to reside at the University. And, in fact, the success of this plan for building up university education, after a trial of twenty years, is by no means encouraging. Why should a graduate labor a year or two for a title which the graduate of Oxford and of almost every college in America can get on showing his Bachelor's diploma and paying his fees?

Far be it from me to disparage the value of the education of which these now equivalent degrees are the exponent. I believe that the attainments necessary to pass the final examinations, not only at the English Universities, but at Yale, Harvard, Brown, and several other American institutions, fully justify the award of the Master's degree, and, therefore, that that degree could properly be awarded, as Dr. Wayland proposed, whenever those examinations are passed, and not three years later with the show of some added worth and dignity which really do not exist.

If, therefore, the more enterprising graduates, and those who have time and means, could be induced by the hope of another degree, one of real significance, to add another year or occasionally two years, to their university residence, for the sake of still higher attainment and culture, undoubtedly a great advance could be made in university work.

It is to be regretted that the degree of Doctor of Philosophy has been introduced into American institutions. Germany and the countries which adopted the German plan of university education, had fairly won the right to hold that degree as peculiarly their own. American universities should either have united in correcting the wrong use of the Master's degree, and in restoring its value, or else in the adoption of some new and distinctive degree. But as they have assumed the right to confer the German degree, and already for many years have exercised that right, the only question that remains is, on what terms can the degree be creditably and properly awarded?

In the German Universities the student can take his examination for the degree of Doctor of Philosophy when he has attended lectures three years; that is, at the end of the third year from the Gymnasium.* At this time the years devoted to his education in the primary school, the Gymnasium, and the University, will have amounted (as remarked above) to sixteen or seventeen. Now if the American student takes the same degree after a residence at the University of *five years*, as we propose, he will have spent in his education, according to the average age of our own graduates, at least eighteen or nineteen years. In brief, we shall require in Michigan at the least eighteen years of preparation for the examination for which German Universities demand a minimum of sixteen. We might reasonably ask, why should so much longer preparation be demanded of the American than of the German student? Why should he not be allowed to offer himself for this examination after a course of seventeen years; that is, after four years' residence at the University, added to the time spent in his primary and high school training? Is he inferior in quickness and power of attainment; less capable of scholarly research; less apt and ready in expression? No one believes that the American youth, compared with the German, falls behind in any of these qualities. The necessity, if there be any, for a longer term of preparation in the case of the American student, must be due, therefore, to inferior teaching, rather than to inferior gifts. But if our teaching be inadequate to the proper training of our youth, let us give way to those who are equal to the task. Let the State send to Germany or some other land for instructors who will work our State system more effectively, and do full justice to the talent and earnest spirit of our students. But making all reasonable allowance for the disadvantages incident to institutions scarcely yet developed, and machinery hardly yet in run-

*As he enters the University at the age of eighteen or nineteen, his age at the time of the University examination is twenty-one or twenty-two. See Matthew Arnold, pages 9, 158.

ning order, we cannot seriously endanger the interests of the higher education, or bring dishonor upon our diplomas, if we exact two years, or even one year, of preparation more than is required in the German Universities.

We should remember, too, that while the candidate is admitted to examination at the end of five years' residence, it by no means follows that the degree will be awarded. The examination must not be a mere matter of routine, and the award of the degree a foregone conclusion, as is too often the case in the graduation of "college classes." It must be emphatically an university examination, made by responsible committees or boards, and proving not how well the student remembers the words of lectures, but how thoroughly he has investigated the subjects of instruction, and employed the sources of information pointed out by the lecturer. He is to be tested, not like a school boy, or college classman, seeking for marks and standing, and faithfully repeating the ideas or facts of a text-book, but like a full-grown man and scholar, as to what he himself has found out and thought out under the general guidance and direction of those whom he chooses for instructors.

To insist upon unreasonable periods of time, in dealing with university students, to make time the more conspicuous and essential condition, is to acknowledge that the examination, and the Faculty as examiners, cannot be trusted; that they depend more upon what the student may be supposed to have accomplished, than what they know by inspection he has actually accomplished.

But it is assumed by those who object to our course in this matter, that in foreign countries the degree in question, and, indeed, all other degrees, have a kind of standard value, uniform and common to all. The truth is that each country has a standard of its own, determined by its own traditions, and by its own educational circumstances and opportunities. England does not ask Germany what degree shall be conferred at Oxford, nor on what terms. Neither does Germany in this respect imitate the French, nor the French any other people. But not only so; there is by no means that uniformity which we might expect, even in the institutions of any one country, as to the terms on which they bestow their honors. We might suppose that in Germany, at least, there would be a common grade of attainment. But it is notoriously the fact that the Doctorate has a widely different value and significance in different German universities.* Berlin is known to hedge round this degree with much greater difficulties, with much more thorny examinations, not to say with a much higher fee,

* See Matthew Arnold, page 75.

than most other German universities. Yet those, or most of those, that are less stringent in their requirements, under the influence of local circumstances, perhaps of less perfect schools of preparation, do no discredit to themselves, bring no dishonor upon the degree, and are everywhere in repute and esteem. Now, as they are governed in establishing the terms of graduation, in some measure, by the educational condition of the particular community, state, or kingdom which they represent, and as the very first universities, from the same necessity of inferior opportunities, fifty or a hundred years ago, gave their degrees at that time for a grade of preparation inferior to the present; so, to some reasonable extent, is it right and necessary for us to have reference, in the requirements of this University, to the educational circumstances and wants of Michigan. We have our own graded system of education; the University is inseparable from this system. We do not ask, therefore, whether certain provisions and privileges granted here, are acceptable to other states, other communities, or other universities; but simply whether they are in harmony with our own educational plan. Do they meet our own necessities? Do they promote our own best interests? These are the only questions that are really important.

I believe that every step in the history of the University hitherto has been a step in the right direction. Every movement has been justified by its results. In every instance, indeed, our measures have been criticised more or less severely, and some amongst our friends and colleagues have viewed them with apprehension and timidity. But this feeling has almost invariably had its origin and sole argument in the fear of what would be thought of us abroad or "in the East." Reputation is very important when based upon solid merit. When it depends merely on the conforming of our action to that of others, without regard to our own peculiar circumstances, and at the sacrifice of our peculiar interests, our action should cease to be under its control.

In view of these several considerations, I think it is just and safe and wise to offer to those students who have completed the required work of our Literary Department, or the first two years of its courses, the privilege of entering upon the special studies which lead to the degree of Doctor of Philosophy, and of presenting themselves for examination at the end of the fifth year of residence at the University.

The exact amount of university residence generally required for the higher degrees, taken in England and America "in course", and in Germany on examination, is expressed in weeks as follows: at

Oxford and Cambridge, *seventy-two weeks*, distributed over three years;* in Germany, *one hundred and twenty weeks*, extending through the same period†; in America, usually *one hundred and sixty weeks*, extending through four years. From this residence is deducted the time taken for the Christmas and Easter holidays, usually longer in Europe than in this country. The residence that we propose to require in the University of Michigan for the degree of Doctor of Philosophy is *two hundred weeks*.

It would be a farther safeguard against imperfect preparation to require, previous to the special work for this degree, not only an examination in all the prescribed studies, but also that these studies shall occupy the whole of the first two years of residence. Finally, the "credit system," applicable to the other degrees, should have no connection with this. It should be made to depend entirely upon attendance throughout the courses of lectures, and upon successful examinations; unless the candidate be already a graduate, and allowed on that account to come to the final examination after a shorter period of special study.

I believe also that it would best promote the interests of the higher education and of the University, if the requirements for admission to the professional schools should gradually and as rapidly as possible be advanced, so that not only the complete High School training, but that of the first two years of the Literary Department, or an equivalent, be made a condition for admission to those schools. Of course, this must be a work of time; but it should be the ultimate and determined aim of the Board of Regents and the Faculties. Indeed, such advanced preparation is already demanded by the School of Engineering. For, preliminary to the special work of this School, the student is required to complete the first two years, or the prescribed studies of the so-called Scientific Course. Is there any reason why an engineer should have a more extended and more complete preliminary training than a student in law or medicine? Does the profession of the engineer call for a higher grade of education than that of the lawyer or doctor? And is it any more difficult for the lawyer or doctor to comply with rigid conditions of graduation, than for the engineer?

* "The academical year is ordinarily twenty-four weeks. That is to say, no undergraduate need reside longer than this period in each of the three years which make up the amount of time required by the University for his degree." Rogers, page 154. "The University [Cambridge] considers a term sufficiently kept by two-thirds residence,—twenty-two weeks in the year." Everett, *On the Cam*, pages 165-6.

† Except the degree of M. D., which requires one year more.

It will be perceived that the general plan of preparation for all the higher and professional degrees, as here recommended, contemplates two distinct objects : one is the limitation of the requirements for examination in the literary degrees to such a period as shall not be extravagant nor incompatible with the educational circumstances of the State, nor discouraging to the youth of the State who aspire to the attainment of them ; the other is, on the contrary, the raising of the requirements for the professional degrees by following out the course which the professional Faculties have already initiated, in exacting more thorough preparation, until the training of the candidates, both in the preliminary courses, and in the professional courses, shall be equal in extent and thoroughness to that of candidates for the higher degrees in the Literary Department.

Thus the education for the professions and for the higher literary degrees will be built upon a common foundation, and will be reared to a common height of attainment ; and thus unity and symmetry will be given to the education afforded by the University in all its departments and schools and courses of study.

The importance of these topics at the present moment must be my apology for dwelling upon them so long.

In the past history of the University, attention has been called not infrequently to its character and influence as a Christian institution. It has been criticised and assailed on diametrically opposite grounds. One party has accused us of giving too much countenance to religion ; another has charged us with being unchristian and even infidel. The one has petitioned the State Legislature to call us to account for teaching Christianity ; the other, through denominational papers, and through various other channels, has alleged that we discourage religion altogether. It has not been necessary, therefore, for us, when smitten on the one cheek, to turn the other also. The parties have stood ready to buffet us on either side. The University has received with all meekness, and usually in silence, these assaults from both parties ; yet she claims the right to assert with simplicity and plainness her true position : her right, on the one hand, to cherish religion and to maintain a Christian character ; and, on the other, to do this without exercising compulsion or forcing her students to any form of religious observance. Accordingly, when the legislative committee inspected our religious customs, in answer to the petition above mentioned, they reported that in this matter we were not infringing upon the freedom of any citizen ; and those, on the other hand, who have inspected us in connection with the opposite charge, have found us practically as true to Christianity as other academic institutions. As I understand it, the University occupies in respect to religion the same

ground with the State itself, and with all other institutions of the State. The State of Michigan is a Christian State, and her institutions are founded and governed upon Christian principles. Christianity, therefore, is not merely tolerated in the University, not merely not proscribed, but is unhesitatingly honored and cherished. Our dependence upon God is acknowledged in the invocation of his blessing on the meetings of the Regents, and in the public exercises of prayers in chapel throughout the academic year. But to these latter students are not coerced. And for freedom here there are two good reasons. Young men and women of the average age of nearly twenty-two* can hardly be elevated in their religious character by attendance on religious worship which on their part is not voluntary; and, second, to make such attendance a condition of enjoying the privileges of the University, is a violation of the freedom of opinion and of conscience inherited by every citizen. Religious worship, therefore, is voluntary; but not on that account, we trust, any less acceptable and profitable. The number in attendance under such liberty is indeed far less imposing, but the number of *worshippers* is quite as great.

It should be remarked that in accordance with the custom of older institutions, the daily devotional exercises of this University have hitherto been confined to the Literary Department alone. They were established at the time of the organization of that Department, which for several years constituted the whole University. The students of the "Collegiate" or Literary Department at that time, also in accordance with old customs, were lodged in "dormitories" erected on the campus for their accommodation. This semi-domestic arrangement made it both natural and convenient to assemble the students for daily devotions. Twenty-seven years ago the dormitories were fortunately abolished. The State and the University could not reasonably have been expected to multiply buildings to furnish sleeping apartments for a thousand or fifteen hundred students. On the other hand, the citizens naturally and gradually, with the increasing demand, multiplied their private accommodations for students, and thus have left the University in this respect entirely without embarrassment; at the same time securing to the student population in general something more nearly approximating to the life of home. Meantime, the professional schools have sprung up by the side of the Literary Department, all conducted in buildings erected on the University

* The actual average age of students in the Literary Department at the time of matriculation, for the last two years, has been nineteen years, eleven months, and twenty-three days. Therefore the average age of students in the Department, including the advanced classes, is nearly twenty-two years.

campus; and their students, like those of the Literary Department, find their homes in the families of the city. I can see no good reason, therefore, why daily devotions should be conducted for the benefit of the Literary Department alone. The latter class of students cannot be supposed to have any greater need of them, and all members of the University who desire the privilege should have an equal opportunity to engage in them. It seems to me, therefore, desirable and proper to provide a suitable place for public devotions (and for this purpose I would have a chapel worthy of the name), in which, at an hour convenient for all, the students of every Department of the University may have the opportunity to be present.

But, I think, those who have experience in college life will agree with me that the religious condition of a university is not determined by attendance on chapel exercises. It depends rather upon the voluntary religious organizations kept up and fostered amongst the students themselves; upon the class bands or meetings for prayer and mutual encouragement, and upon the general association of Christian students in religious societies. Such organizations have existed in this institution for many years, and have never been more vigorous and active than at the present time. Every possible encouragement has been extended to them by the Regents and the Faculties, in securing to them convenient apartments for their meetings, and in countenancing and aiding their efforts in the cause of religion and morality. And besides this means of religious culture, the practice has been long established of inviting the students of all Departments to assemble on Sunday afternoon, generally twice a month, to listen to religious discourses, delivered sometimes by the President, sometimes by the clergymen, and sometimes by the laymen, of the Faculties. The Christian Association also occasionally invites eminent clergymen from abroad to deliver discourses before the assembled students. Thus the University lacks none of those voluntary means and appliances which are anywhere deemed essential to the advancement of religion in universities and colleges.

Every one feels that the most important condition of the Christian character of a university is to be sought in the Christian character of the Faculties. Now, of the eighty officers of the University, enrolled in the Calendar of the last year under the head of "Members of the Faculties and other Officers," the latter including the Librarian and Assistant Librarian, sixty are communicants in the churches of the several Christian denominations, and seven, though not communicants, are earnest co-workers with these churches in their various benevolent operations. As a general thing, these members of the Faculties are amongst the most active and useful members of the

churches to which they belong, and many of them are prominent in the conventions and associations of the various denominations. Every Sunday-school in the town, with one exception, is under the superintendency of some one of them, and several of them, both clergymen and laymen, are often called upon, here and elsewhere, to preach sermons or to take part in movements for moral improvement and reform. It is impossible to see how a University in whose body of teachers religious belief and practice so largely predominate, can be accused of being unchristian. In fact, a Christian tone and sentiment do pervade the teaching of the University. There is scarcely an important chair, especially in the Department of Literature, Science, and the Arts, that is not held by an earnest Christian man.

Of the students, from thirty to thirty-three per cent. are members of churches. This has been the average ascertained by the census taken by the Christian Association for a series of years.

On the whole, if a comparison were made in respect to religion, morals, and conduct between this University and others containing the same or nearly the same number of students, the result would not be at all discreditable to this institution. Clergymen as well as others who have come from the neighborhood of some other collegiate institutions, have expressed to me their surprise at the general quiet and good order prevailing here, where there are fifteen hundred students, as compared with the state of things in places, where there are less than half that number. But, seldom or never, when suspicion or reproach is cast upon the University, is any reference made in the way of comparison to other universities, either small or great. Nothing whatever is said about Princeton, Yale, Brown, or Dartmouth. It seems to be assumed that all others are above reproach, that their students are all perfect, that they are not subject to ebullitions, and that they are entirely beyond the reach of all contaminating influences. There can be no good reason for singling out the University of Michigan as the object of special investigation and criticism, and at the same time leaving all others out of view.

Finally, if any effort to divert Christian students from this University on the charge that its sixty Christian teachers exert an unchristian influence, shall unhappily prove successful, and thus the Christian element be taken away from among its undergraduates, the responsibility of having thus given over this mighty educational power to irreligion, will lie not with the opponents of Christianity, but with those who profess Christianity.

Among the improvements of the year the introduction of courses of study in music may be mentioned as one that has added value to our educational work. Long recognized in European universities as

one of the legitimate branches of a liberal education, and as an art which in its present development is one of the richest fruits of modern civilization, it demands a place in any university that claims to represent the intellectual culture of the times. The work accomplished in this study during the year has fully justified our expectations, and has proved the power of music when properly taught, not only to improve the taste, but to discipline the mind.

In the department of engineering, a chair has been established which supplements the work already provided for, and now secures to the University a complete School of Engineering. I refer to the newly created professorship of Mechanical Engineering. Availing ourselves of the law enacted by Congress in 1879, an enactment similar to that which authorizes the President to detail officers of the army to give military instruction in schools and colleges, and empowering the government in like manner to designate officers of the corps of naval engineers to act as professors of steam engineering and naval architecture in such institutions as may ask for their services, we applied to the Secretary of the Navy for the appointment of a naval engineer for such service in our engineering department. The officer detailed in compliance with our request, is Mr. Mortimer E. Cooley, a graduate of the Naval School at Annapolis, who has been in active service for several years since his graduation, and who will immediately enter upon his duties here. With reference to the accomplishment of the object contemplated in the enactment of Congress above mentioned, certainly no institution in the country is more favorably located than the University of Michigan. Situated nearly in the centre of the region of the great lakes, the School of Steam Engineering and Naval Architecture, opened here, will afford a convenient resort for young men who desire to prepare themselves for a calling which the interests of our increasing lake navigation will soon make one of very great practical importance.

The operations of the several professional Departments and Schools have been conducted with efficiency, and attended with general good success. For details I respectfully refer you to the reports of the Deans of Faculties.

The collections which make up the Museum of Natural History have been removed to the new building erected for their reception, and are to a great extent ready for exhibition. That portion of the north wing of University Hall which has thus been vacated, has been remodeled and well arranged, under the direction of the Steward, for the accommodation of large classes attending University lectures.

The equipment of the Observatory has been greatly improved by the addition of instruments for the special use of students. The work

of this department is ably conducted, and is contributing its proper share to the reputation of the University. Assistant Schaeberle has recently received a premium as the discoverer of a new comet.

The General Library has been enlarged by purchases provided for by the annual appropriation of the Board and by a special legislative appropriation. The following is a summary of the statistics contained in the report of the Librarian, presented herewith :

Number of volumes in the General Library, 31,203; Law Library, 4,100; Society Libraries, 2,100; Library of Young Men's Christian Association, 1,000; total number of volumes accessible to students, 38,403; number of unbound volumes and pamphlets, 8,423.

Additions to the General Library during the year, 1,858 volumes and 268 pamphlets; to the Law Library, 63 volumes.

The most important gifts of books are: from the Honorable Philo Parsons, of Detroit, 300 volumes; from Professor George S. Morris, 40 volumes; and from Mr. A. E. Richards, 20 volumes.

The following numerical summaries are furnished by the statistics of the year.

Four hundred and thirty one degrees on examination, and eight honorary degrees, have been conferred, as follows :

DEGREES ON EXAMINATION.

Pharmaceutical Chemist.....	33
Civil Engineer	9
Bachelor of Letters.....	2
Bachelor of Science.....	5
Bachelor of Philosophy.....	15
Bachelor of Arts....	54
Master of Philosophy.....	1
Master of Arts.....	9
Doctor of Philosophy.....	1
Doctor of Medicine (Department of Medicine and Surgery).....	99
Bachelor of Laws.....	145
Doctor of Medicine (Homœopathic Medical College).....	21
Doctor of Dental Surgery. .	37
	<hr/> 431

HONORARY DEGREES.

Bachelor of Arts.....	1
Master of Arts.....	2
Doctor of Philosophy	1
Doctor of Laws	3
Doctor of Medicine	1
	<hr/> 8

The whole number of degrees conferred, therefore, was 439.

The number of students in attendance was fifteen hundred and thirty-four, registered in the six Departments and Schools as follows :

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.	
Resident Graduates.....	10
Candidates for Degrees.....	425
Students not Candidates for Degrees.....	86
	<hr/>
	521
DEPARTMENT OF MEDICINE AND SURGERY.	
Students—Total in the Department.....	380
DEPARTMENT OF LAW.	
Seniors.....	150
Juniors.....	221
	<hr/>
	371
SCHOOL OF PHARMACY.	
Second Year.....	37
First Year.....	51
	<hr/>
	88
HOMOEOPATHIC MEDICAL COLLEGE.	
Students—Total in the College.....	88
COLLEGE OF DENTAL SURGERY.	
Students—Total in the College.....	86
	<hr/>
	1534

The total of attendance exhibits an increase of 104 over that of the previous year.

In the Department of Literature, Science, and the Arts, there were 7 candidates for the degree of Civil Engineer; for that of Bachelor of Letters (English) 28; Bachelor of Science, 58; Bachelor of Philosophy, 15; Bachelor of Letters (Latin) 77; Bachelor of Arts, 240.

Of the 210 new students in this Department, 75 were admitted on diploma from the schools of the State.

The following additions to the corps of instructors, and, also, the following promotions have been made during the year : Mortimer E. Cooley, Assistant Engineer, U. S. Navy, has been appointed Professor of Mechanical Engineering; George S. Morris, Ph. D., Professor of Logic, Ethics, and the History of Philosophy; Isaac N. Demmon, A. M., has been promoted to the chair of English and Rhetoric, made vacant by the resignation of Professor Moses Coit Tyler, LL.D.; Benjamin C. Burt, A. M., has been appointed Assistant Professor of English and Rhetoric, in place of Mr. Demmon; Elisha Jones, A. M., Assistant

Professor of Latin, has been made Associate Professor of the Latin Language and Literature; and Albert H. Pattengill, A. M., Assistant Professor of Greek, has been made Associate Professor of the Greek Language and Literature; Byron W. Cheever, A. M., M. D., Assistant in Chemical Laboratory, has been appointed Acting Professor of Metallurgy; and Volney M. Spalding, A. M., Assistant Professor of Botany, has been made Acting Professor of Botany. William J. Herdman, M. D., Victor C. Vaughan, Ph. D., M. D., Charles H. Stowell, M. D., Lecturers in the Department of Medicine and Surgery, have been appointed Assistant Professors; Charles S. Denison, M. S., C. E., Instructor in Engineering, Calvin Thomas, A. M., Instructor in German, and Otis C. Johnson, A. M., Assistant in Chemical Laboratory, have been appointed Assistant Professors. William H. Dorrance, D. D. S., Assistant in the College of Dental Surgery, has been made Professor of Prosthetic Dentistry.

The financial history of the year is embodied in the accompanying report of the Committee on Finance.

The funds contributed by the Alumni for the Williams Professorship, and the fund which the undergraduates are endeavoring to raise for the building of a Gymnasium, are not strictly within the province of the University. Yet, as real and important interests of the University, I append to this report statements of their present condition furnished by their respective Treasurers.

While the history of the year gives us abundant reasons for congratulation on the successful progress of our work, and on the support, countenance, and favor of the people and the State government, the retrospect is saddened by the many occasions which have called us to mourn the death of friends and servants of the University.

In the early part of the year we were shocked by the announcement of the sudden death of Professor James C. Watson. He had scarcely become established in his newly adopted home at Madison, and we had not yet ceased to think of him as one of our number, and as still sharing in our labors. We received the remains of our recent colleague at the University, and attended them to their last resting place with every token of honor due to one who is universally acknowledged to have been the brightest and foremost of all our Alumni.

And within the last few weeks, the University Senate has again been called together to give expression to sentiments of grief. We mourn in common with all the people of the State the death of ex-Governor Bagley. Brought in his childhood to Michigan soon after it had been organized as a State, he grew up with its growth and became thoroughly identified with its history and with all its great inter-

ests. No citizen had more at heart the welfare of those public institutions which are the pride of Michigan; and among these, none was dearer to him than the University. Whether in his official capacity as Governor, or in the exercise of his influence as a private citizen, he never lost an opportunity of advocating any measure which in his judgment tended to its advancement. He was interested in all our work, and was frequently present amongst us. Especially shall we miss his familiar form at Commencements and on other public occasions. The vast multitude of mourners assembled in the city of Detroit and thronging its avenues on the day of the funeral obsequies, gazing with sad faces on the passing hearse, represented and expressed the profound sorrow and affectionate regret everywhere felt by the people of the State which he had loved and faithfully served.

And before we had yet paid the last honors to this lamented friend and eminent citizen, came the announcement of the death of our ex-President, Erastus O. Haven. He died while on an official visit in Oregon as Bishop of the Methodist Church. He was long associated with us here, first as Professor, and afterwards as President of the University. We look back upon his period of service in the latter office as one of the most prosperous in the history of the institution. He possessed in an eminent degree that administrative talent, that readiness and felicity of speech, that liberal and kindly spirit, that self-possession, calmness, and patience, and that judgment and tact, which go to make up the qualifications of a successful president. His resignation of that office was received by all of us with profound regret, and by none more than by the Board of Regents. He has gone to his rest and to his reward suddenly, and quite prematurely. Few men have left a record of life so filled with useful and eminent services; a life full of activity in the cause of education, of literature, science, and learning, and, above all, of religion.

And finally, he who has always held the first place in the affections of our Alumni, he who first opened the doors of this institution and organized its first classes, and who from that day to this, a period of just forty years, has never ceased to cherish its interests with all the solicitude and tenderness of a father, whose last thoughts and words were of the University,—George P. Williams, in a good old age, has passed away to his heavenly home. I need not dwell here upon his merits, his good works, and his admirable personal qualities, so familiar to us all. That sad and pleasing duty will devolve upon one of my colleagues who has known him long and intimately, and who was associated with him in the affairs of the University in its early days. By my request he will publicly express the sentiments of love and reverence which we cherish for our departed brother, and will present the

history of his life and services, a history, indeed, which is that of the University itself. For of all the events of this history he could justly say: *quorum pars magna fui.*

Letters from our absent President lead us to expect his return about the first of February of the ensuing year. The diplomatic service which he has rendered to the country in the negotiation of important treaties with China has become matter of history. The whole country was gratified as well as surprised at the promptness with which the terms of the treaties were agreed upon by the commissioners of both countries, and the substantial unanimity of the Senate of the United States in their ratification is sufficient proof that they are entirely satisfactory to the country and creditable to the embassy. But not less gratifying to the University is the account we have received from American missionaries in China, of the good work done there by President Angell in behalf of Christianity. Hitherto privileges and immunities have been conceded by the Chinese government to the representatives of other orders of Christians, particularly to the Roman Catholics, which have been withheld from the Protestants. This discrimination, through the earnest interposition of our Minister, has at length been removed, and thus a signal benefit has been conferred upon the cause of Protestant Christianity. We look forward with hope and pleasure to his return; and all hearts will welcome him back to the duties which he regards as the true mission of his life, and which he prefers to any position and any duties in the public service.

In conclusion, I must express my personal gratification at the favorable circumstances which have made the burden of the presidential office comparatively light and even a source of pleasure. For this I must thank both the Board of Regents and the Faculties, who have extended to me every courtesy, and have on all occasions manifested a kind and earnest disposition to aid in the successful performance of my labors. I have also to record the fact, honorable to the students of the University, that during the whole period of President Angell's absence they have acted with the feeling that nothing should go round the world and reach him in that distant land, but reports which should at once contribute to cheer his temporary exile, and to increase his desire to be on the campus once more.

HENRY S. FRIEZE,

Acting President.

On motion of Regent E. C. Walker, the report was accepted, and ordered printed in the minutes. It was further ordered that 500 copies of the report, together with the report

of the Finance Committee, be printed for the use of the Board.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The report of the Superintendent of the construction of the Eye and Ear Ward, was presented, and on motion of Regent Shearer it was ordered to be printed in the minutes.

The report is as follows :

To the Building Committee of the Regents of the University of Michigan :

GENTLEMEN,—I herewith submit report of the building of the Eye and Ear Ward of the University Hospital. By direction of the committee I submitted the plans and specifications to three builders, and the bid of George Scott, at twenty two hundred and fifty dollars, being the lowest bid, the contract was awarded to him, and under that contract said Scott has built and completed the building. There was an additional charge in connection with the building, of enclosing an open porch, making a continuous hall from the Amphitheatre to the wards, for the sum of thirty-three dollars. The steam-heating and plumbing have been done under direction of Mr. Sanford, the Engineer of the University, at a cost of five hundred and nineteen and ninety-one one-hundredths dollars. The sewer connection has been made at a cost of \$115.98. The work has been done in a very satisfactory manner.

ANDREW CLIMIE,

Superintendent.

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That the Auditing Board be, and are hereby authorized to expend so much as may be required, not exceeding \$250, in equipping and furnishing the Eye and Ear Ward of the University Hospital; such expenditure to be made from the appropriation for building and furnishing the Eye and Ear Ward.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, VanRiper, Grosvenor, and Shearer.

Nays—None.

The following communication was received and read :

To the Honorable, the Board of Regents :

GENTLEMEN,—By an oversight at the time of the nominations for assistants to the various chairs in the Department of Medicine and Surgery—at the June meeting—no provision was made for the chair of Obstetrics and Diseases of Women and Children. With the approval of the Faculty of this Department, I therefore present the name of my assistant of last year, Lorin Hall, M. D., for reappointment, at a salary of \$200 per annum.

Very respectfully yours,

E. S. DUNSTER, M. D.,

Professor of Obstetrics and the Diseases of Women and Children.

ANN ARBOR, Mich., Sept. 27. 1881.

Regent Grosvenor presented the following resolution :

Resolved, That Lorin Hall, M. D., be and is hereby appointed Assistant to the Chair of Obstetrics and Diseases of Women and Children, at a salary of \$200 a year, from October 1st, 1881.

The resolution was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

The following preamble and resolution, presented by Regent Grosvenor, was adopted :

Whereas, The same standards of admission and attainments are required in the two Medical Colleges of this University; therefore,

Resolved, That in case of the rejection of a student on the entrance examination by either of these Colleges, such student shall not be admitted into the other College during the same collegiate year.

Regent Shearer presented an account of Assistant Professor J. B. Davis for expenses incurred in visiting New York and Philadelphia in the interest of the department of Civil Engineering, September 3d and 5th, 1881, amounting to \$11.25, which, on his motion, was ordered paid, by vote as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

On motion the Board adjourned to 9 o'clock to-morrow (Wednesday) morning.

MORNING SESSION.

Wednesday, September 28, 1881.

The Board reconvened in the room of the President at 9 o'clock A. M.

Present, a full Board, Regent Cutcheon appearing and taking his seat.

The annual report of the Finance Committee was presented by Regent Climie, chairman of the committee, and was referred back to the committee for revision.

Regent Cutcheon submitted the following resolution, which was adopted :

Resolved, That the matter of the advisability of the appointment of a Superintendent of Property and the assignment of his duties subordinate to the Steward of the University, be referred to the Committee on Buildings and Grounds, and that they be requested to report at the present meeting of the Board.

On motion, the Board took a recess till 2 o'clock P. M.

AFTERNOON SESSION.

Wednesday, September 28, 1881.

The Board reconvened in the room of the President at 2 o'clock P. M.

Present, a full Board, Regent Duffield in the chair.

Regent E. C. Walker moved that the Board go into executive session. The motion prevailed.

At the close of the business of the executive session, business in open session was resumed.

Regent Shearer submitted the following resolution, which was adopted :

Resolved, That Andrew Climie be and hereby is appointed Superintendent of the several works necessary in the construction of the proposed new Library Building, until further ordered by the Board of Regents ; and that said Climie be required to give his entire time during business hours to the duties of said Superintendency, and such

other duties as may be directed by the Committee on Buildings and Grounds; and that the compensation to said Climie for said services, during any of the months below named, shall be as follows, viz.: For the months of October, November, April, May, June, July, August, and September, in each year, at the sum of \$108 a month; and for the months of December, January, February, and March, at the sum of \$81 a month. This resolution to take effect from and after the date when the resignation of said Climie as Regent of the University shall have been filed with the Secretary of the Board.

The vote on the adoption of the above resolution was as follows:

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, Grosvenor, and Shearer.

Not Voting—Regent Climie.

On motion of Regent Grosvenor, a communication of the Faculty of the Department of Literature, Science, and the Arts in regard to the School of Political Science, was referred to the Executive Committee of the Board.

Regent E. C. Walker moved that the Board do now take a recess till 7½ o'clock P. M.

The motion prevailed.

EVENING SESSION.

Wednesday, September 28, 1881.

The Board reassembled in the room of the President at 7½ o'clock P. M.

Present, a full Board, except Regent Van Riper.

The revised report of the Finance Committee was submitted by Regent Climie, and, on motion of Regent Grosvenor, was received and ordered printed in the minutes.

The report was as follows:

To the Honorable, the Board of Regents:

The Finance Committee of the Regents of the University submit the following report of the receipts and disbursements for the year ending September 30th, 1881, and also an estimate of the receipts and disbursements for the year ending September 30th, 1882.

RECEIPTS.

Balance in Treasury October 1st, 1880.....	\$19,067 24
Received from State Treasurer :	
For University Interest.....	38,531 59
For State Aid 1-20th Mill Tax ..	31,500 00
For Chemical Laboratory Enlargement.....	15,000 00
For Homœopathic Medical College.....	8,000 00
For College of Dental Surgery.....	5,000 00
For General Library.....	2,500 00
For University Hospital.....	3,500 00
For Homœopathic Hospital.....	2,000 00
For Library Building.....	5,000 00
For Eye and Ear Ward, University Hospital.....	3,500 00
For Sewer.....	7,500 00
For Mechanical Laboratory.....	1,500 00
Received from other sources :	
Loans.....	25,000 00
Dean Bros., balance on Laboratory Enlargement.....	27 69
W. J. Herdman, Demonstrator of Anatomy	476 75
Interest on Treasurer's Account.....	489 50
Error in Voucher No. 993.....	1 00
Students' Fees, including Laboratory Deposits.....	62,745 13
Total Receipts.....	<hr/> \$231,338 90

DISBURSEMENTS.

Paid Salaries of Professors, Officers, and Employees....	\$110,678 80
“ Vouchers, current expenses.....	63,800 27
“ Museum Building, special....	2,380 19
“ Steam-Heating Apparatus, special.....	99 46
“ Homœopathic Hospital, special.....	850 44
Paid General Library, special.....	2,417 32
“ Homœopathic Medical College, special.....	1,970 28
“ University Hospital, special.....	3,849 56
“ College of Dental Surgery, special.....	571 58
“ Homœopathic Hospital Equipment, special.....	496 19
“ Library Building, special.....	2,913 20
“ Eye and Ear Ward, University Hospital.....	2,581 39
“ Sewer.....	5,055 50
“ Loans.....	25,000 00
“ Interest on Loans.....	358 54
“ Homœopathic Hospital Construction Account.....	1,053 40
Total Disbursements.....	<hr/> \$224,076 12
Balance on hand.....	\$7,262 78

ADJOURNED MEETING, SEPTEMBER, 1881. 129

Below are given statements of the receipts and disbursements
in the General and Special Funds :

GENERAL FUND.

Receipts.

Balance in Treasury October 1st; 1880.....	\$13,262 74
Received from State Treasurer:	
For Interest on University Fund.....	38,531 59
For State Aid, 1-20th mill Tax.....	31,500 00
For Chemical Laboratory Enlargement.....	15,000 00
Received from other sources :	
From Loans.....	25,000 00
" Dean Bros., balance on Laboratory Enlarg. Ac....	27 69
" W. J. Herdman, Demonstrator of Anatomy.....	476 75
" Interest on Treasurer's Account.....	489 50
" Error in Voucher No. 993.....	1 00
" Students' Fees, including Laboratory Deposits....	62,745 13
" Transfer from Mechanical Lab. Fund, special.....	1,000 00
	<hr/>
	\$188,034 40
Balance overdrawn to new account.....	665 71

Disbursements.

Paid salaries of professors, officers, and employees.....	\$ 99,541 50
" for current expenses.....	63,800 27
" Loans.....	25,000 00
" Interest on loans.....	358 54
	<hr/>
	\$ 188,700 11

The expenditures for current expenses are classified as follows:

Alterations and repairs.....	\$ 4,339 65
Fuel and lights.....	15,990 32
Grounds.....	258 87
Postage.....	664 98
Insurance.....	2,278 99
Engineering Department.....	308 36
General Library.....	600 75
Law Library.....	461 64
Medical Library.....	480 20
Advertising Medical Department.....	150 15
Advertising School of Pharmacy.....	154 75
Museum and Microscopical Laboratory.....	1,809 79
Chemical Laboratory.....	9,056 39

Department of General Chemistry.....	737 42
Department of Physics.....	251 07
Astronomical Observatory.....	3,127 19
Printing Regents' Proceedings.....	445 70
Calendar.....	1,013 96
Triennial Catalogues.....	807 00
Chemical Laboratory Enlargement.....	5,575 44
Museum cases.....	2,959 25
Physiological Laboratory.....	235 86
Construction account.....	1,870 41
Pathological Department.....	88 70
Carpenter shop.....	61 02
Ventilation.....	225 51
Special claims, Douglas' Judgment.....	3,741 29
Furniture and fixtures.....	786 48
Contingent account.....	4,820 17
Anatomical fund.....	4 8 96
	<hr/>
	\$ 63,800 27

SPECIAL FUNDS.

HOMCEOPATHIC MEDICAL COLLEGE.

Receipts.

Balance in Treasury October 1, 1880.....\$	1,320 49
Received from State Treasurer.....	8,000 00
Total receipts.....	\$ 9,320 49

Disbursements.

Paid salaries.....\$	6,487 50
Paid vouchers for current expenses.....	1,970 28
Total disbursements.....	\$ 8,457 78
Balance in Treasury October 1, 1881.....	862 71

COLLEGE OF DENTAL SURGERY.

Receipts.

Balance in Treasury October 1, 1880.....\$	837 77
Received from State Treasurer.....	5,000 00
Total receipts.....	\$ 5,837 77

Disbursements.

Paid salaries.....\$	4,650 00
Paid vouchers for current expenses.....	571 58
Total disbursements.....	\$ 5,221 58
Balance in Treasury October 1, 1881.....	616 19

GENERAL LIBRARY.

Received from State Treasurer	\$ 2,500 00
Paid for books	2,417 32
Balance in Treasury October 1, 1881.....	82 68

HOMŒOPATHIC HOSPITAL.

Received from State Treasurer.....	\$ 2,000 00
Paid vouchers for current expenses.....	850 44
Balance in Treasury October 1, 1881.....	1,149 56

LIBRARY BUILDING.

Received from State Treasurer.....	\$ 5,000 00
Paid vouchers for current expenses.....	2,913 20
Balance in Treasury October 1, 1881.....	2,086 80

EYE AND EAR WARD OF UNIVERSITY HOSPITAL.

Received from State Treasurer.....	\$ 3,500 00
Paid vouchers for current expenses.....	2,581 39
Balance in Treasury October 1, 1881.....	918 61

SEWER.

Received from State Treasurer.....	\$ 7,500 00
Paid vouchers for construction.....	5,055 50
Balance in Treasury October 1, 1881.....	2,444 50

UNIVERSITY HOSPITAL.

Receipts.

Balance in Treasury October 1, 1880.....	\$ 2,070 94
Received from State Treasurer.....	3,500 00

Total receipts.....	5,570 94
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Disbursements.

Paid vouchers for current expenses.....	\$ 3,849 56
Balance in Treasury October 1, 1881.....	\$ 1,721 38

STEAM HEATING APPARATUS.

Balance in Treasury October 1, 1880.....	\$ 101 99
Paid vouchers for equipment.....	99 46
Balance in Treasury October 1, 1881.....	2 53

HOMŒOPATHIC HOSPITAL EQUIPMENT.

Balance in Treasury October 1, 1880.....	\$ 496 19
Paid vouchers for equipment.....	496 19

MUSEUM BUILDING.

Balance in Treasury October 1, 1880.....	\$ 977 12
Paid vouchers for construction.....	2,380 19
Amount overdrawn October 1, 1881.....	1,403 07

MECHANICAL LABORATORY.

Received from State Treasurer.....	\$ 1,500 00
Transferred to General Fund.....	1,000 00
Balance in Treasury October 1, 1881.....	500 00

HOMŒOPATHIC HOSPITAL AND AMPHITHEATRE.

Paid vouchers for construction.....	\$ 1,053 40
Amount overdrawn October 1, 1881.....	1,083 40

RECAPITULATION.

Balances in Treasury, October 1, 1881.

Homœopathic Medical College.....	\$ 862 71
College of Dental Surgery.....	616 19
General Library.....	82 68
University Hospital.....	1,721 38
Library Building.....	2,086 80
Sewer.....	2,444 50
Eye and Ear Ward.....	918 61
Mechanical Laboratory.....	500 00
Steam Heating Apparatus.....	2 53
Homœopathic Hospital.....	1,149 56
	<hr/>
	\$ 10,384 96

Overdrawn Balances, October 1, 1881.

Homœopathic Hospital and Amphitheatre	
Construction account.....	\$ 1,053 40
Museum Building.....	1,403 07
General Fund.....	665 71
	<hr/>
	\$ 3,122 18
Total balance in Treasury.....	\$ 7,262 78

The estimated receipts for the fiscal year ending September 30, 1882, are as follows:

Balance in Treasury October 1, 1881.....	\$ 7,262 78
Interest on University Fund	38,500 00
State Aid, 1-20 mill tax.	40,500 00
Homœopathic Medical College, (Act of 1875).....	6,000 00
Library Building.....	95,000 00

College of Dental Surgery.....	8,000 00
University Hospital.....	3,500 00
Mechanical Laboratory.....	1,000 00
Homœopathic Hospital	2,000 00
General Library.....	2,500 00
Homœopathic Medical College.....	2,000 00
Interest on Treasurer's Account.....	500 00
Students' Fees, Laboratory Receipts, etc.,.....	65,000 00
	<hr/>
	\$ 271,762 78

The estimated expenses for the fiscal year ending September 30, 1882, are as follows :

Salaries of Professors and Officials.....	\$ 118,265 00
Alterations and repairs.....	7,000 00
Fuel and lights	8,500 00
Grounds	500 00
Insurance.....	2,500 00
General Library.....	3,800 00
Medical Library.....	500 00
Law Library.....	500 00
Annual Calendar....	1,200 00
Printing Regents' Proceedings.....	500 00
Postage.....	1,000 00
Engineering Department.....	500 00
Physiological Laboratory..	500 00
Physical Laboratory.....	500 00
Department of General Chemistry.....	600 00
Current expenses, College of Dental Surgery.....	1,500 00
Current expenses, Homœopathic Medical College.....	1,500 00
Chemical Laboratory supplies.....	6,000 00
Advertising Department of Medicine and Surgery.....	200 00
“ Department of Law.....	200 00
“ Homœopathic Medical College.....	200 00
“ College of Dental Surgery.....	200 00
“ School of Pharmacy	200 00
“ Department of Literature, Science, and the Arts.....	200 00
Hospital and Clinics.....	3,500 00
Museum	500 00
Microscopical Department.....	500 00
Homœopathic Hospital and Clinics.....	2,000 00
Library Building....	97,000 00
Mechanical Laboratory.....	1,500 00

Sewer.....	3,250 00
Contingent Fund	5,000 00
Anatomical Fund.....	1,500 00
	<hr/>
	\$ 271,315 00

The annual report of the Treasurer with a full list of all warrants paid, is herewith submitted. This list of warrants has been compared with the books of the Secretary of the Regents of the University and found correct.

Your Committee also submit a list of the professors, officials, and employees of the University, with the amount of salary paid to each. The receipts for students' fees and from Laboratory deposits have been compared with tickets issued by the Secretary and found correct. The vouchers for current expenses and special funds have been compared and examined, and agree with the report of the Treasurer.

Your Committee believe that the number of students will be larger than during the past year, and consequently the amount received from students will be larger; but the increase in this direction will not provide a sufficient increase of the funds of the University, and thus the Regents have been compelled to increase the annual fees of the students. Such increase, together with the amount of additional income derived from the 1-20th of a mill tax consequent upon the increased valuation of the State, will, in the opinion of your Committee, provide a sufficient fund for the successful carrying out of the largely increased educational facilities of the University.

ANDREW CLIMIE,

Chairman of the Finance Committee.

The following resolutions, submitted by Regent Climie, were adopted :

Resolved, That the Treasurer of the University is hereby instructed to transfer the sum of six hundred eighty-nine and 8-100 dollars, which has been credited to the Special Dental Fund, to the General Fund.

Resolved, That the Treasurer of the University is hereby instructed to transfer to the General Fund the overdrawn balance, \$1403.07, on the Museum Building Fund.

Resolved, That the Treasurer of the University is hereby instructed to transfer the overdrawn balance of \$1,053.34 from the Homœopathic Hospital construction account to the General Fund.

The following resolution, presented by Regent Climie, was adopted :

Resolved, That the Committee on Buildings and Grounds be and are hereby authorized to contract with James Appleyard for constructing and arranging privy and closets at the boiler house, Medical College, and Dental College, with attachments and connections complete to sewer, for a sum not to exceed \$595.79.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That Mrs. I. E. Rosebrugh and Mrs. H. A. Hurd be and they are hereby appointed Matrons of the University Hospital.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That Edgar Garrison Young, M. D., Henry Harrison Turner, M. D., and Mrs. Margaret Allerdice, be and are hereby appointed Nurses in the University Hospital, at a salary of \$300 a year each, from October 1, 1881.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

The following resolution, presented by Regent Grosvenor, was adopted :

Resolved, That Harvey Sewall, M. D., be and hereby is appointed Lecturer on Physiology in the Department of Medicine and Surgery, for the second semester of the coming college year, at a salary of \$1,100.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Grosvenor presented the following resolution :

Resolved, That one thousand dollars be appropriated for the purpose of equipping the Department of Physiology.

Pending a vote on the above resolution, Regent S. S. Walker moved that it lie on the table for the time.

The motion prevailed.

Regent Grosvenor read the following communication :

To the Hon. E. O. Grosvenor, Chairman of the Medical Committee :

In view of the increased amount of hospital and clinical work attached to the Chair of Materia Medica, I respectfully request that I have full salary the coming year.

H. C. ALLEN.

Approved : E. C. Franklin, T. P. Wilson.

On motion of Regent Cutcheon, the communication was received, and for the time it was laid on the table.

The following communication from the Dean of the Faculty of the Homœopathic College was read by Regent Grosvenor :

HOMŒOPATHIC MEDICAL COLLEGE, }
September 28, 1881.

To the Honorable, the Board of Regents :

GENTLEMEN,—The assistants that the Faculty of the Homœopathic College request the Board to appoint for the chairs herein mentioned, with salary of one hundred dollars each, are : for Surgery (already appointed), R. G. DePuy; for Practice, A. R. Halstead, M. D.; for Materia Medica, W. P. Polhemus, M. D.

E. C. FRANKLIN, Dean.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the persons named in the communication from the Dean of the Homœopathic Medical College be appointed, at a salary of \$100 each, in accordance with the recommendation of the Faculty.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

A report relative to the construction, cost, and condition of the sewer on the campus, was read by Regent Climie.

On motion of Regent S. S. Walker, the report was received and placed on file.

Regent S. S. Walker presented the following resolution, which was adopted :

Resolved, That the estimates of expenditures in the Annual Report of the Finance Committee shall not be considered as appropriations of the sums therein estimated until the items shall be specifically appropriated by vote of the Board of Regents.

Régent Climie presented a report relative to the Beatty bills, which had been settled and paid. The report was received and placed on file.

The following resolution, submitted by Regent S. S. Walker, was adopted :

Resolved, That the Secretary and Steward be and is hereby authorized to employ such additional clerical assistance as he may require in performing the duties of his office, and to report the names and wages and amount of service of the assistants employed, at the next meeting of the Board.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Shearer presented the following preamble and resolution :

Whereas, A resolution was adopted at the meeting of July 1, 1881, to turn over to the Department of Civil Engineering a framed building formerly used for a joiner's shop, for use as a Mechanical Laboratory, instead of one thousand (1000) dollars of the appropriation for said Department; and

Whereas, Said joiner's shop is deemed unsuitable for the purpose; therefore,

Resolved, That the above mentioned resolution be hereby rescinded, and the matter of locating and erecting a brick building suitable for the Mechanical Laboratory be referred to the Committee on Buildings and Grounds and the Department of Civil Engineering, with power to contract for the same, by said committee, at a cost not to exceed \$1,500, chargeable to said appropriation.

The vote on the adoption of the above preamble and resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be, and are hereby authorized, to sell the machinery now in the old joiner's shop, for a price which in their opinion is fair; and also to rent said shop building to the Contractor for the Library Building, for such rental as in their opinion is just.

The following report, made by Regent Shearer, was adopted :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on Buildings and Grounds, to whom was committed the duty of completing the several papers required for the contract for constructing the proposed building for Library uses, have to report, that they have carefully examined the specifications, schedules, drawings, and copy for contract, and believe all are now in good form and ready for the signatures of the parties to such contract.

Regent Shearer submitted the following resolution and recommended its adoption :

Resolved, That the Board of Auditors are hereby instructed to pay James Appleyard, as contractor, for the changes in the main roof, the sum of \$2,450, when the Superintendent of the work certifies to the entire completion of the same. Said Board are likewise instructed to pay to said Appleyard the sum of \$7,429.90 when all the sewers are certified, as above mentioned, to be complete as per contract with said Appleyard. The before-mentioned sums are to include any payments already made on either of the within named contracts.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Climie presented a report relative to the new Museum building, which was received, and ordered to be placed on file with accompanying papers.

The following resolution, presented by Regent Climie, was adopted :

Resolved, That the sum of thirteen and nine one-hundredths dollars be appropriated for Regents' expenses of the last meeting of the Board, not heretofore audited.

Ayes—Regents E. C. Walker, Climie, Cutcheon, Duffield, Grosvenor, and Shearer.

Nays—None. Not voting—Regent S. S. Walker.

Regent Duffield, Chairman of the Library Committee, read the following report :

The Library Committee would recommend the acceptance of the Librarian's annual report, and its publication in the minutes. Much of your Committee's special report was so ably anticipated yesterday by Acting President Frieze, in his annual report, that it is unnecessary here to repeat it.

The appropriations asked were mainly these two, viz.: 1st, \$600 for the purchase of Poggendorff's *Analen der Physik und Chemie*; 2d, \$487.50 for Crelle's *Journal of Mathematics*.

There was also a petition signed by Acting President Frieze, Professors Dunster, Langley, and Demmon, and Mr. Davis, the Librarian, asking that a regular annual appropriation be made for the School of Pharmacy, as in the Departments of Law and Medicine—the present necessities of the Department of Pharmacy for books being \$1,000.

The total amount thus asked was \$2,087.50. Your Committee, unable to recommend so large an amount after the very generous appropriation already made for books during the current year, have withheld their final report until the present time. They now find the question much simplified, and the amount desired reduced from \$2,087.50 to \$475.

This has been done

1. By the purchase of Poggendorff out of the regular appropriation, the mathematical department generously giving up their quota toward said purchase.

2. By the virtual withdrawal for the present of the petition on behalf of the School of Pharmacy.

3. By the reduction in price of Crelle from \$487.50 to \$475.

Your Committee recommend that the sum of \$475 be appropriated by the Board for the purchase of Crelle's *Journal für die reine und angewandte Mathematik*.

GEO. DUFFIELD,
SAMUEL S. WALKER,
B. M. CUTCHEON.

Sept. 28th, 1881.

Pending a vote on the adoption of the report, Regent S. S. Walker moved the following amendment :

At the close of the last sentence of the report the Secretary shall add the words “on condition that the amount be taken from the *special appropriation* made by the last legislature of the State.”

The amendment of Regent S. S. Walker was accepted, and, as amended, the report was adopted by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Grosvenor, and Shearer.

Nays—None.

The Librarian's report referred to by Regent Duffield is as follows :

To the Honorable Board of Regents of the University of Michigan :

LIBRARIAN'S REPORT FOR THE YEAR 1880-81.

Since June 30, 1880, 920 books and 4 pamphlets have been purchased, 625 books and 264 pamphlets presented, and 313 books added by binding.

Total accessions for the year, 1858 books and 268 pamphlets.

One hundred and forty-three periodicals have been received regularly; of these 119 were paid for, and 24 were gratuitous.

In addition to the above, the students furnish for the reading-room 50 magazines and newspapers.

The books and pamphlets purchased cost \$2,206.84.

The 119 periodicals for which subscriptions were paid cost \$600.56.

For works issued in parts \$161.65 have been paid.

Besides the 313 volumes bound, and constituting additions to the number of volumes, 48 volumes have been rebound and 58 repaired. The amount paid the binder for all this work was \$381.41.

Other expenses have been for transportation, catalogue, cards, printing, etc. The bills for these things are not in all cases rendered to me, and any statement that I might make would necessarily be incomplete.

The library contains to-day 31,203 volumes and 8,523 pamphlets, distributed as follows :

In the main collection,	29,865 vols., and 8,356 pamphlets.
At the Observatory,	552 “ “ 167 “
At the Chemical Laboratory,	331 “
At the Botanical Rooms,	255 “

At the Dental College, 200 vols.

The books are in good condition—a result of frequent repairing and rebinding.

Twenty-seven volumes of those subject to the most wear, were sent to the bindery for repairs last week. When they are returned we shall be entirely ready for readers again.

The conveniences for administration are deplorable, but as relief is now assured we cheerfully submit to inconveniences.

At the several collections outside—at the Observatory and other places named—there is for the present sufficient room. My impression is, after a careful inspection of all these, that the books, while they are used frequently, are well cared for. At the Observatory the shelving has been increased, and many of the unbound volumes bound. Some strictly technical works have been removed thither from the main collection. These things have combined to make the Astronomical Library a very respectable one in number of volumes and condition.

We have missed two pamphlets and a single volume. I do not consider them lost, but simply misplaced.

During the vacation, that is, from July 1 to Sept. 22, there

were drawn and read in the reading-room..... 1,200 vols.

During the remainder of the year.....77,293 “

Loaned to members of the Faculty during the year..... 2,806 “

The recorded use of the library for the year, therefore, is 81,299 volumes, equal to using each book in the collection $2\frac{1}{2}$ times. This does not include the use made of the library by the Professors *as a reference library*, or by the post-graduate students and resident graduates, or the use made of the books at the Observatory, the Laboratory, the Botanical Rooms, and the Dental College. It is proper to explain, also, in this connection, that loans of books varying in number from 50 to 100 volumes are made annually to the Physical Laboratory and to the work-rooms of the Museum. These are used constantly while they remain in those places.

I was on the ground here as a student in 1856, when the library, consisting of about 6,000 volumes, was first fairly shelved on the lower floor of the old Museum. Its use, even then, was very creditable to the University.

In its removal to better quarters in 1863—in the construction of a catalogue—in the opening of it for consultation more hours daily—in the increased number of students—in the increased number of books—in the new methods of instruction—in *all* these, we recognize causes of its increased use.

Every institution—every community, indeed,—possesses what may be called its distinguishing characteristics. This characteristic here, is, I believe, *the reading habit*. It permeates the atmosphere, and is infectious in the highest degree. It lies back of all the causes I have named and makes them potent.

The enthusiasm of the fresh, young investigator is something wonderful, when he cuts loose from compilations and the inferences of compilers, and enters the great field spread out before him in a judicious citation of authorities.

A gentleman residing in Washington wrote me a while ago to learn what the library contained on a certain subject, on which he was at variance with the received authorities.

“Just set some of your young men on the track,” he wrote, “and they will run the game down, no matter what the nature of the ground.” He was right. Put an enterprising student on the track of a fact, or a principle, and he will not fail to see what it was in the beginning, except for want of materials. I have watched with admiration this search for truth go on from month to month, and from year to year,—not always intelligently, or systematically, but always with faith and enthusiasm in the manner, and with great gain in methods and available knowledge.

The books drawn and used in the reading-room during the year were distributed by subjects as follows:

Modern History.....	151½%
Medicine (including bound periodicals).....	14 “
Bound periodicals (exclusive of medical).....	14 “
General English Literature.....	8 “
Political Economy.....	6 “
Physics and Chemistry.....	4 “
Poetry and the Drama.....	4 “
Prose Fiction.....	4 “
Encyclopædias.....	4 “
Latin Language and Literature.....	3½ “
Greek Language and Literature.....	3 “
Modern Languages and Literature.....	3 “
Ancient History.....	3 “
Biography.....	3 “
Astronomy and Mathematics.....	2 “
Education.....	1 “
Geology and Zoölogy.....	1 “
Fine Arts.....	1 “
Philosophy (Mental and Moral).....	1 “
Miscellaneous.....	5 “

The low per cent of reading in Physics and Chemistry, Geology and Zoölogy, and the failure of Botany, Palæontology, and some other subjects, to appear at all, is rather misleading. These subjects are read at the places where the technical works on them are permanently, or temporarily, located, and we cannot cast our statistical net so as to inclose their use.

The most important gift that has been made to the library since Mr. Parsons, in 1871, presented the collection bearing his name, was received a few days ago—and from Mr. Parsons this time, also. It consists of 300 volumes from the library of the late Judge Cochrane, of Detroit. The books divide quite sharply into treatises on Civil and International Law, histories, and texts of the Greek and Roman classical writers.

A list of these books, and the other gifts, accompanies this report. I will name here, however, as of special value, a reprint of the “*Moniteur*” for the period of the French Revolution (May, 1789, to November, 1799,) in 32 large octavo volumes, illustrated. It is a minute, contemporary account of a decade that has no parallel in history. I will name, also, 136 volumes of the Tauchnitz Classics, representing 41 Greek and 31 Roman writers.

From Professor Morris the library has received a valuable collection of German plays of the 18th century.

The Massachusetts State Board of Charities, and the Bureau of Statistics, have sent us their publications, which are very valuable in the study of Political Economy.

Mr. A. E. Richards, whose collection of coins grows so rapidly in interest and value, has sent with nearly every parcel of coins from Florence, one or two books. He has in this way increased materially our stock of Italian literature, and also added to the number of our Latin texts.

There have been other gifts, of one or two volumes, many of which are valuable. As already said, a list of these accompanies this report.

The regular course of lectures on Bibliography was delivered, at the usual time.

The law for the protection of libraries, passed by the Legislature last winter, originated here; and though it was in effect the Wisconsin law, it was not settled upon without consideration and study. In common with others, I labored for a successful termination of the effort for a new library building. And, with others, I am profoundly grateful to the Legislature for responding so nobly to the appeal, and especially to the individual members who had the interests of the University in charge.

Book catalogues have been studied faithfully, to learn what was in the market, and with a view to economy in purchases. Gifts of books have been solicited where there was a reasonable prospect of obtaining them. These things, with the regular and necessary duties of every day, have kept us all busy.

For several years the need of certain sets of books has been urgent. The amount of the joint appropriations last year enabled the committee to order one of these, viz, Poggendorff's *Annalen der Physik und Chemie*. The cost of this will be about \$600.

Another set equally necessary is Crelle's *Journal für die reine und angewandte Mathematik*. A copy of this, the ruling price of which is about 2,500 marks, is offered for 1,950 marks, or \$487.50. The amount of money at the disposal of the committee will be insufficient to satisfy the current demands, and purchase this. Meantime the need grows more crying, and the price higher.

I have here, and will read, a memorial of the Library Committee, relating to the wants of the School of Pharmacy in the line of books.

To the Honorable Board of Regents :

In view of the limited appropriation for the purchase of books for the General Library, and in view of the demands of the School of Pharmacy for special and expensive works for use in that Department, the Library Committee would respectfully ask your Honorable Body to make a regular annual appropriation to purchase books for the use of that School, as is now done for maintaining the libraries of the Department of Law and of the Department of Medicine and Surgery; such appropriation to be expended under the direction of the Librarian and the Dean of the School of Pharmacy. At the present moment upwards of a thousand dollars' worth of books are greatly needed in order to the proper pursuit of investigations in that School, and it has seemed to us fitting to memorialize the Honorable Board of Regents, and ask that they provide for the growth of this part of the Library by a regular appropriation as above specified.

Signed, H. S. FRIEZE,
E. S. DUNSTER,
JOHN W. LANGLEY,
ISAAC N. DEMMON,
R. C. DAVIS.

If it shall seem to you proper to make a special appropriation for Crelle's Journal, and a regular annual appropriation for the School of Pharmacy, as desired, I think we can, in two or three years, by careful management, secure other necessary and costly sets out of the annual appropriations to the library.

The Medical books enter into the statistics already given. I give a separate report, also :

Number of Medical books purchased.....	103 vols.
“ volumes added by binding.....	82 “
“ “ presented.....	30 “
“ Pamphlets presented.....	29
Total accessions, 215 volumes and 29 pamphlets.	

Cost of books bought, \$278.59. Cost of periodicals, in subscriptions, \$177.42. Cost of binding and repairs, \$66.52.

Comparatively few books have been purchased for the use of the students of the Homœopathic Medical College. There are nine journals of that School received, all of which are contributed by the publishers. By means of the small appropriation made by the Board at the January meeting I have been able to fill up and bind 26 volumes of these. There is, therefore, the nucleus of a Homœopathic collection, which should presently be swelled by purchases and gifts.

Very respectfully submitted,

R. C. DAVIS, Librarian.

Ann Arbor, June 28, 1881.

The following resolution, submitted by Regent Shearer, was adopted :

Resolved, That Regent E. O. Grosvenor be and hereby is added to the Committee on Buildings and Grounds, from and after this date.

On motion of Regent Cutcheon, the Board went into executive session. After spending some time therein, the doors were opened and business in open session resumed.

Regent Cutcheon read several papers, which were referred to the special committee on “ Medical affairs.”

Regent E. C. Walker moved that the Board adjourn till 9 o'clock A. M. to-morrow. Agreed to.

MORNING SESSION.

Thursday, September 29, 1881.

The Board re-assembled in the room of the President at 9 o'clock A. M.

Present, a full Board, except Regent Van Riper.

Regent Cutcheon presented the following resolution, which was referred to the Finance Committee :

Resolved, That the communication of Professor C. K. Wead be referred to the Finance Committee, with instructions to report at the next meeting of the Board what sum it is possible to appropriate for apparatus for Professor Wead's department.

Regent E. C. Walker, chairman of the Special Committee in the matter of the questions between Professor D. Maclean and Professor E. C. Franklin, submitted the following report, which was adopted; copies of the same to be furnished the Deans of the Medical Faculties, with instructions to call the attention of their respective Faculties to the same.

The report was accepted, and ordered printed in the minutes, by the following vote :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

To the Honorable, the Board of Regents :

The Special Committee to whom were referred the charges made by Professor Donald Maclean, of the Department of Medicine and Surgery, against Professor E. C. Franklin, of the Homœopathic Medical College, by a resolution of June 30, last, and to whom was also referred, on July 1st, the general subject of mutual criticism and destruction between the two medical schools, respectfully report :

That the charges made by Dr. Maclean are three in number :

1st. That Dr. Franklin had industriously and publicly circulated a report that Dr. Maclean, in a certain difficult surgical operation, had caused the death of a patient by tying the pneumogastric nerve.

2d. That in his printed report to a medical association he had falsely stated that the clinic of the Homœopathic College was far more extensive than that of the other Department.

3d. That in the same report he had in glowing terms detailed the particulars of a case of neuralgia in the foot which Dr. Maclean declared incurable except by amputation, and which he had cured; which particulars Dr. Maclean alleges to be false.

As to the first charge, Dr. Franklin stated to the Committee that such a ligated nerve was in his possession, sent to him from Monroe, and alleged to have been taken from the body of the patient mentioned; but he denied peremptorily that he had promulgated in any public manner or place any such charge against Dr. Maclean.

As no time or place is mentioned in the charge of Dr. Maclean, we have not examined farther in this direction, but give Dr. Franklin the full benefit of his disclaimer.

The Committee, however, in justice to Dr. Maclean, have satisfied themselves, by the testimony of assistants in the operation, that the charge of tying the pneumogastric nerve is utterly without foundation in fact; that on the contrary, it was proven that in tying the artery the attention of the class and assistants was publicly called to the proximity of the pneumogastric nerve.

Professor Franklin admitted that he had made and published the statements as alleged in the second and third charges.

The Committee consider the statement made in the second charge as destitute of truth, and upon a subject with which Professor Franklin must have been fully acquainted.

As to the third charge, in regard to the case of neuralgia, the Committee have not thought it their duty to go into the question of determining whether the patient made the statements ascribed to her by Dr. Franklin, or whether her letter to Dr. Maclean denying them, are true. The Committee can only, in any case, condemn the publication of any such statements.

As to the general question of public criticism and personal detraction between the officers of the two Medical Faculties under care of the Board, the Committee cannot sufficiently express their condemnation of the same. Both Schools are alike under the care of the Board and supported by the State. No personal detraction or evidence of the personal unfitness or want of skill of an individual, can have any effect in proving or disproving the truth of rival medical systems. But such personal contests and virulent attacks injure the whole University and the Department that indulges in them.

This Committee believe that the Board should place its stamp of condemnation on every public personal attack, made in print or by parol, upon professors or officers of the Medical Schools; and any violation of the rule already established by the Board, should subject the guilty to prompt removal from his official position.

Regent Van Riper, a member of the Committee, was called away by official business before drawing up the report, but agreed substantially with the views of the Committee.

E. C. WALKER,
GEORGE DUFFIELD,

Regent Cutcheon presented the following report, which was adopted :

To the Honorable, the Board of Regents :

The Committee on the Literary Department, to whom was referred the matter of grading salaries in that Department, at the June meeting of the Board, would report that they are not prepared at this

meeting to recommend any general plan of grading such salaries; but your Committee cannot refrain from expressing the wish that the Board might at this time see the way clear to increase the salaries of Instructors De Pont and Hennequin to the sum of \$1,000 per year.

Your Committee recommend that such increase be made, to take effect at once.

This recommendation is made upon the ground of the long service and the very small pay of these two instructors.

B. M. CUTCHEON, Chairman,
E. O. GROSVENOR,
GEORGE DUFFIELD.

The vote on the adoption of the report was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That the Auditing Board be authorized to purchase for the department of General Chemistry instruments and appliances as recommended by Professor Langley : Provided, the cost of the same shall not exceed \$500.

The vote was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None. *Not Voting*—Regent Climie.

Regent Grosvenor presented the following resolutions, which were adopted :

Resolved, That the name of the "Physiological Laboratory" be changed to "Histological Laboratory."

Resolved, That Assistant Professor Stowell be authorized to offer an *advanced* course in "Histology and Microscopy," with a fee of \$10 (ten dollars) for each semester's work.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be authorized to expend a sum not to exceed \$100, in securing the bearings of two columns now a part of the support of the Audience Room Gallery.

The vote was as follows :

Ayes—Regents E. C. Walker, Climie, Cutcheon, S. S. Walker, Duffield, Grosvenor, and Shearer.

Nays—None.

Regent Shearer read the following paper :

James Appleyard offers \$150.00 a year for use of shop, and \$150.00 a year for use of machinery, to be returned in as good order as received, except the natural wear. He also offers \$5.00 a day for use of steam, the steam to be used only when the University has steam on.

The following resolution, presented by Regent Shearer, was adopted :

Resolved, That the above proposals from Mr. Appleyard be accepted, and that the Committee on Buildings and Grounds be, and are hereby authorized, to make the proper transfer and lease.

Regent E. C. Walker, from the special committee on “medical affairs,” presented the following report :

To the Honorable, the Board of Regents :

The special committee, to whom was referred the charges made by C. H. Skeels against Professor E. C. Franklin, respectfully report that they have examined the papers and testimony submitted to them in the matter, and consider the charges alleged to be of sufficient importance to be carefully examined. The committee will not be able to report at the present meeting, and ask that further time may be given for a report.

E. C. WALKER,

Chairman.

The report was received, and further time granted.

On motion of Regent Cutcheon, Assistant Professor C. N. Jones was granted leave of absence for one week, for the purpose of attending a teachers' institute, at Rochester, Mich.

On motion, the Secretary of the Board was instructed to furnish a list of the policies of insurance written upon the different properties of the University, said list naming the buildings and stating the amount, rate, and time of expiration of each policy.

On motion of Regent Cutcheon, Regent VanRiper was appointed a committee to prepare the annual report of the Board to the Superintendent of Public Instruction; also Regent S. S. Walker was appointed to make the annual report to the Governor of the State.

Regent Climie presented the following resolution, which was adopted:

Resolved, That the communication of Prof. C. K. Wead, as to the purchase of apparatus for his department, is herewith submitted without recommendation by the Finance Committee, as the financial affairs of the University have been fully discussed by the Board, and we cannot make the appropriation.

On motion of Regent Grosvenor, chairman of the Medical Committee, the "Joy communication," so called, was referred to the special committee having in charge the medical difficulties.

Regent Grosvenor read the following communication:

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, September 29, 1881. }

To the Honorable, the Board of Regents:

GENTLEMEN,—I have been asked, in behalf of the Faculty of Medicine and Surgery, to call your attention to the urgent necessity of providing some means for the ventilation of the lower lecture room in the Medical building. The room is occupied by about 400 students, and is lighted by about 150 gas jets. The exhaustion of oxygen and contamination of the air in this room occurs therefore with great rapidity; and it is demonstrable from sanitary data that for so large an audience the air should be completely changed every ten minutes. The present ventilating arrangements do not renew the air once an hour; the result is that a fairly poisonous condition of the room is attained in about fifteen minutes after the lecture begins. It is not unusual for students in the upper part of the room to be rendered seriously ill from "air poisoning."

We believe that a hot air box can be laid from one of the heating coils in the Laboratory to the Medical lecture room, and that a suitable supply of air can thus be forced into the building at a small expense.

We therefore ask you to appropriate a sum, not exceeding two hundred dollars, (\$200), and to appoint a committee for the purpose of

improving the ventilation of the lower lecture room of the Medical building. It may be necessary to provide some small additional assistance to the engineer of the Laboratory to enable him to run the engine at hours when he is not required to run it for Laboratory purposes.

Very respectfully,

JOHN W. LANGLEY,

Professor of General Chemistry.

On motion of Regent Grosvenor, the Auditing Board were authorized to expend a sum, not to exceed \$200, for the purpose of ventilating the lower lecture room of the Medical College, in accordance with the plan proposed by Professor J. W. Langley.

Agreed to by the following vote :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Grosvenor, and Shearer

Nays—None. *Not present*—Regents Cutcheon, Duffield, and VanRiper

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the Auditing Board are hereby instructed to change the steam connection with the Law building to a direct connection, at a cost not to exceed one hundred and fifty dollars.

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Grosvenor, and Shearer.

Nays—None.

Regent S. S. Walker presented the following resolution :

Resolved, That the Steward be authorized to renew such policies of insurance as may expire before the next meeting of the Board, on the best terms that can be obtained.

Agreed to, by vote, as follows :

Ayes—Regents E. C. Walker, Climie, S. S. Walker, Grosvenor, and Shearer.

Nays—None.

On motion, the Board adjourned, *sine die*.

H. D. BENNETT,

SECRETARY.

NOVEMBER MEETING,

1881.

UNIVERSITY OF MICHIGAN,
Wednesday, November 2, 1881. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Van Riper, and Grosvenor.

Hon. Austin Blair, Regent by appointment to fill the unexpired term of Regent Climie, resigned, presented his credentials and took his seat in the Board.

The meeting was opened by Acting President Frieze with devotional exercises.

On motion of Regent E. C. Walker, the minutes of the last meeting were approved as printed.

Regent Cutcheon presented the following resolution, which was adopted :

Resolved, That Regent E. C. Walker be and hereby is appointed to fill the vacancy in the Executive Committee, said vacancy occurring in consequence of Regent Shearer's absence from the country.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That Regent Austin Blair be and is hereby appointed a member of the Committee on Medical Department, Homœopathic College, and College of Dental Surgery, in place of Regent Climie, resigned.

Regent Cutcheon read the following report :

Gentlemen of the Board of Regents :

In behalf of the Executive Committee, I would report that since the last meeting of the Board, the Dispensing Clerk employed in the School of Pharmacy, Mr. E. F. Wood, has resigned his position to accept employment elsewhere. Upon the recommendation of the Dean of that School the Executive Committee appointed Mrs. Kate C. Johnson to temporarily fill the place of Dispensing Clerk. A permanent appointment should be made at this meeting.

B. M. CUTCHEON,

Chairman Executive Committee.

Regent E. C. Walker moved that the report just read by the Chairman of the Executive Committee be accepted and approved. The motion prevailed.

Regent E. C. Walker, chairman of the Committee on Chemical Laboratory, presented the following resolution :

Resolved, That in accordance with the recommendation of the Faculty of the School of Pharmacy, Mrs. Kate C. Johnson be and is hereby appointed Dispensing Clerk in the Chemical Laboratory, in place of E. Fred Wood, resigned, at the same salary as said Wood, viz., six hundred dollars a year. Salary to commence from her appointment by the Executive Committee.

The vote on the adoption of the resolution just read was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Van Riper, Grosvenor, and Blair.

Nays—None.

The following resolution, presented by Regent Cutcheon, was adopted unanimously :

Resolved, That the thanks of the Board be and are hereby tendered to the Hon. Philo Parsons, of Detroit, for his valuable gift of a set of "Kuhn's Journal of Comparative Philology," in twenty-five volumes.

A communication from the Junior Class of the Department of Law was received, and referred to the committee on that Department.

Regent S. S. Walker read a report relative to the amount of insurance written upon the property of the University, which

was received and referred to the Committee on Buildings and Grounds.

Acting President Frieze presented the resignation of Professor Donald Maclean, of the Department of Medicine and Surgery.

On motion of Regent E. C. Walker, the resignation of Dr. D. Maclean was referred to the joint committees on "difficulties in the Medical Schools."

A communication from the Faculty of the Department of Medicine and Surgery was also received, and referred to the same committees.

On motion of Regent S. S. Walker, the Board took a recess to 2 o'clock P. M.

AFTERNOON SESSION.

Wednesday, November 2, 1881.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—A full Board, except Regent Shearer, Regent Duffield appearing and taking his seat.

On motion of Regent E. C. Walker, the Board went into executive session. At the close of the executive session, Regent Grosvenor submitted the following report and resolution:

To the Honorable, the Board of Regents:

The Committee on the Medical Department, to whom was referred the communication of Professor A. B. Palmer, Dean, transmitting the action of the Medical Faculty, with other testimonials, recommending that the degree of M. D. be conferred upon George W. Peckham, would respectfully report that in view of all the facts as set forth in the papers submitted, would recommend the adoption of the following resolution:

Resolved, That the degree of M. D. be conferred upon George W. Peckham, formerly a student of this University, and that the papers submitted be placed on file.

On motion, the resolution was unanimously adopted.

Regent Cutcheon submitted the following resolution, which was adopted unanimously :

Resolved, That Professor Donald Maclean be requested to withdraw his resignation, and that the chairman of the Committee on the Medical Department communicate this action to Dr. Maclean.

The following report was presented by Regent Grosvenor :

To the Honorable, the Board of Regents :

The undersigned, chairman of the Committee on the Medical Department, to whom was committed the duty of informing Professor Maclean of the action taken by the Board of Regents upon his resignation, requesting him to withdraw the same, would report that he waited upon Professor Maclean and requested him to withdraw his resignation. Upon being fully advised of the action of the Board he consented to do so, and authorized your Committee to report his decision accordingly. Respectfully submitted.

E. O. GROSVENOR.

The report was accepted, and ordered printed in the minutes.

On motion, the Board now went into executive session. At the close of the executive session, a recess was taken to 8 o'clock P. M.

EVENING SESSION.

Wednesday, November 2, 1881.

The Board reassembled in the room of the President at 8 o'clock P. M.

Present, a full Board, except Regent Shearer.

Assistant Professor V. N. Spalding appeared before the Board and briefly stated the condition and wants of the Microscopical Laboratory, and asked that an appropriation of \$100 be made for the purchase of a microscope of higher magnifying power than any now on hand, in order to be able to meet the urgent demands of the department at the present time.

On motion of Regent Walker, the request of Assistant Professor Spalding was referred to the Committee on the Literary Department.

The time for the special order, to consider the charges of E. C. Skeels against Professor E. C. Franklin, having arrived, Regent Cutcheon moved that the Board do now proceed to the consideration of said charges; whereupon Regent Van Riper moved that Regent Cutcheon be requested to conduct the examination for and in behalf of the Board. The motion of Regent Van Riper prevailed.

During the examination, Regent E. C. Walker was requested to formulate the charges made by Mr. E. C. Skeels vs. E. C. Franklin, whereupon he presented the following:

The questions at issue in the matter of the charges against Professor E. C. Franklin are three, as follows:

1st. That on the 16th day of April he knowingly issued to C. Howard Skeels a false certificate of attendance upon the Homœopathic Medical College.

2d. That in defending himself against the above charge at a former meeting of this Board he introduced to the Medical Committee false and manufactured testimony tending to exculpate himself from said charge.

3d. That in violation of the express rules and action of the Board he published in the Ann Arbor "Daily News" a personal attack upon Professor Donald Maclean, of the Department of Medicine and Surgery.

On motion of Regent Blair, the Board adjourned to 8½ o'clock Thursday morning.

MORNING SESSION.

Thursday, Nov. 3, 1881.

The Board re-assembled in the room of the President at 8½ o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Grosvenor.

Absent—Regent Shearer and Regent Blair.

On motion of Regent VanRiper, the Board went immediately into executive session, and, after spending some time therein, the doors were opened and business of an open session was resumed.

Regent Cutcheon presented the following preamble and resolution :

Whereas, It is represented to this Board by Counsel for Dr. E. C. Franklin, that on account of imperative engagements in court he cannot proceed with the further investigation of the charges affecting Dr. Franklin, at this time; and

Whereas, Dr. Sawyer, as medical adviser of Dr. Franklin, represents to this Board that Dr. Franklin is physically incapacitated from safely proceeding at the present time with said investigation, and asks for a postponement of further proceedings in such investigation; Therefore,

Resolved, That when this Board adjourn it adjourns to meet Tuesday evening, Dec. 6th, 1881, at 7½ p. m., and that the special order for that meeting be the completion of the investigation of said matters affecting Prof. E. C. Franklin.

On motion, the resolution was adopted.

Regent E. C. Walker read a communication from George C. Mahon, which was accepted and referred to the President for examination and report.

On motion of Regent VanRiper, Regent Duffield was appointed a committee to prepare the annual report of the Regents to the Superintendent of Public Instruction, in place of Regent VanRiper, excused for want of time.

The following resolutions were presented by Regent S. S. Walker :

Resolved, That the Steward be, and is hereby directed, at once to protect and repair the roof of the museum building.

Resolved, That the Steward be, and is hereby directed, to paint the outside and thoroughly whitewash the inside of the Medical water closets.

The vote on the adoption of the above resolutions was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Grosvenor.

Nays—None.

The following resolution was also submitted by Regent S. S. Walker, was adopted :

Resolved, That the sum of five hundred dollars be transferred from the General Fund to the Library Fund for current expenses of the library and for periodicals.

The vote was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Grosvenor.

Nays—None.

Regent S. S. Walker submitted the following resolution, which was adopted :

Resolved, That the additional sum of \$8.64 be appropriated to complete the ventilation of the Medical College.

Agreed to, by vote, as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and VanRiper.

Nays—None.

The following report was read by Regent S. S. Walker :

UNIVERSITY OF MICHIGAN, }
November 3, 1881. }

To the Honorable, the Board of Regents :

GENTLEMEN—In accordance with a resolution adopted at the last meeting of the Board, “authorizing the Steward to employ assistance in his office,” the undersigned would respectfully report that he has employed Miss Lucy Chapin, of this city, who has entered upon duty, and proves to be both competent and efficient.

The salary to be paid is forty dollars a month.

Very respectfully,

H. D. BENNETT,
Secretary and Steward.

Regent S. S. Walker moved that the report just read be received and adopted.

The motion prevailed, by the following vote :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and VanRiper.

Nays—None.

Regent E. C. Walker presented the following resolution :

Resolved, That a sum, not exceeding one thousand dollars, be expended under the direction of the Secretary and the Committee on Buildings and Grounds, in repairing and altering the President's house. The same to be done after written correspondence with President Angell as to the form of such alterations.

The vote on the adoption of the resolution was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Grosvenor.

Nays—None.

Regent S. S. Walker read the following report :

To the Honorable Board of Regents of the University of Michigan :

GENTLEMEN,—I have to report that the water pipe crossing the site of the Library building had to be lowered before work on the foundation could be commenced. I employed James Appleyard to do the work. 119 hours work at \$1.75 per day, \$20.82.

Respectfully,

ANDREW CLIMIE,

Superintendent.

On motion of Regent S. S. Walker, the bill of Mr. James Appleyard was ordered paid, by the following vote :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Grosvenor.

Nays—None.

Regent S. S. Walker presented the following resolution, which was adopted :

Resolved, That the Steward be, and hereby is directed, to renew such policies of insurance on the property of the University as may expire previous to the next meeting of the Board.

The following report from the Librarian was received, and, on motion of Regent S. S. Walker, it was ordered to be printed in the minutes.

Gentlemen of the Board of Regents :

At a meeting of the Library Committee of the Faculty, held Oct. 29th, the condition of the library funds was discussed, and a reso-

lution passed directing the Librarian to prepare a report on the subject, to be presented to the Board of Regents at their meeting Nov. 2d, with the view of securing from them, if possible, an appropriation to defray the expenses of subscriptions to periodicals, binding, mending, and other necessary expenses, other than the purchase of books.

In accordance with the above resolution I have the honor to submit the following report:

You have never considered, I think, that the library has had all the money that it needed, but only what you could spare it from the General Fund, and what you could obtain for it from the several Legislatures. The amount asked by you last year was \$10,000, double the amount received.

The committee, as related in the introduction to this report, have had under consideration the needs of the library for the year upon which we have entered, and their ability to meet them out of the legislative appropriation of \$2,500.

There were last year nineteen departments of instruction to provide for; there are twenty-three this year. Two were established in June, viz: *Logic, Ethics, and the History of Philosophy*, and *Metalurgy*.

Communications on the subject have been received from the heads of these two departments.

Professor Morris writes, from Baltimore, as follows:

"The collection of books in the library of the University of Michigan relating to the subject of instruction assigned to me by the recent action of the Board of Regents, (Logic, Ethics, and History of Philosophy) contains some *lacunæ* which it is vitally important to fill up, if possible, without any delay."

Professor Cheever writes:

"The following works, not now in the General Library, are absolutely necessary for the successful study of Metallurgy, and some immediate provision should be made for obtaining the same. This is an entirely separate and distinct branch of study, and I ask, that the usual allowance made to other departments, be made to this."

At the same time, Sanscrit, in the teaching of which Mr. Thomas had done volunteer work, was prescribed by you, and Mr. Thomas now asks for the literature of his subject.

Later you established the chair of *Mechanical Engineering*. The incumbent of that chair, Professor Cooley, has made an application for books, and has so stated his needs that the committee made some provision, which must be paid for out of the legislative appropriation.

The report of the Library Committee of the Board, in September, recommending the purchase of Crelle's Journal, was adopted on condition that the amount called for, \$475, should come out of the legislative appropriation. That way of getting it had been considered by the Library Committee of the Faculty, but it did not seem practicable.

I will show you briefly how the legislative appropriation for 1872 stands affected to-day.

The sum is..... \$2,500

The expenses that we can estimate are :

For annual subscriptions to periodicals.....	\$425
“ binding and mending.....	250
“ reader's tickets, catalogues, cards, etc.....	50
“ works issued in parts.....	75
“ transportation	50 \$850

Debts already incurred :

Bulletin de la Soc. Chimique de Paris.....	\$112
Perey Society Publications.....	130
Memoirs of Royal Astronomical Society.....	115
Early Volumes of Botanische Zeitung.....	60
For Professor Cooley's department.....	40
To complete the Fortnightly Review.....	15 \$472 \$1,322
	<hr/>
	\$1,178
Crelle's Journal.....	475
	<hr/>

\$ 703

This is all that is left to provide the special books for the departments, four of them new, and whatever may be required of a general character.

It has become quite necessary to make additions to our periodical list. Sets of important serials have been purchased to date, or nearly to date, on the special lists. Provisions for their continuance, either in the separate numbers as fast as they are issued, or in bound volumes at the end of the year, should be made. To do this, and bind such of them as come unbound, would require about \$100.

In the hope that some fortunate turn in affairs would enable you at this meeting to make provision out of the General Fund for subscriptions to periodicals, binding, mending, and other necessary expenses, and leave the whole legislative appropriation to be applied, in the language of the bill making it, “for the purchase of books,”—in this hope, and in order to have an expression of the wants of the de-

partments, the committee asked for department lists of books to the amount of \$40.00 to a department.

I wish, gentlemen of the Board, you could witness the preparation of lists on the part of Professors; see them weigh one book against another; see the scrutiny bestowed upon price lists; see the careful calculations of discounts, and hear the frequent inquiry made of the Librarian, "Can we exceed the amount?" You would then understand, as you cannot now, how many, how varied, and how important, are the wants of the library.

Now, in the spirit of my instruction from the committee, I respectfully and earnestly ask you to make provision out of the General Fund for the subscriptions to periodicals, the binding, mending, and other ordinary expenses, amounting, with the new subscriptions referred to, to \$935.

I would urge that, in this matter, the committee have strong claims upon your consideration. They are charged by you with promoting the interests of the library. They claim to have been watchful of those interests, and to have an intelligent conception of what is needed.

Very respectfully submitted,

R. C. DAVIS,

Librarian.

Regent S. S. Walker read a communication from ex-Regent Andrew Climie, relative to a claim for services as Superintendent, etc.

On his motion, the communication was referred to the Committees on Finance and on Buildings and Grounds.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the sum of twenty-five dollars be appropriated for making sewer connections with the boiler house water-closet.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, and Grosvenor.

Nays—None.

Regent Van Riper presented the following resolution, which was adopted :

Resolved, That the Secretary cause an examination to be made as to the feasibility of constructing a water-closet in the Law building, and that if practicable he report thereon at the next meeting of the Board.

The following resolution was presented by Regent S. S. Walker, and was adopted :

Resolved, That the Committee on Buildings and Grounds, in connection with the Faculty of the Engineering Department, be authorized to expend one thousand dollars, from the special appropriation for the department, in apparatus and fittings for the new Mechanical Laboratory.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, and Van Riper.

Nays—None.

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That the Engineer be instructed by the Secretary to furnish to the contractor of the Library Building, at the shop, the amount of steam required by him for running his machinery, when not otherwise required for University purposes.

Regent E. C. Walker submitted the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be instructed to prepare, for the permanent use of the University, an accurate and complete map of the University grounds, comprising all the sewer, steam, water and gas connections, buildings, etc.

A report from the Treasurer, showing the receipts and disbursements of money since the last meeting of the Board, was received and ordered placed on file.

On motion, the Board adjourned to December 6, 1881.

H. D. BENNETT,
SECRETARY.

ADJOURNED MEETING,

DECEMBER, 1881.

UNIVERSITY OF MICHIGAN,
Tuesday, December 6, 1881. }

The Board of Regents assembled in the room of the President at 7½ o'clock P. M., pursuant to adjournment.

Present—Acting President Frieze, Regents E. C. Walker, S. S. Walker, Duffield, Van Riper, and Blair.

Absent—Regents Cutcheon, Grosvenor, and Shearer.

On motion of Regent E. C. Walker, the minutes of the last meeting were approved as printed.

The special order of business for the meeting was announced by Acting President Frieze to be “the further examination of the charges made against Professor E. C. Franklin, by E. C. Skeels; said charges having been formulated and printed in the minutes of the November meeting of the Board, on page 157.”

In the absence of Regents Cutcheon and Grosvenor, Regent E. C. Walker moved that the business which had been made the special order for this hour be suspended for the time, and that the Board do now proceed to transact such other business as may properly come before it.

The motion prevailed. Thereupon, Regent E. C. Walker presented the following resolution, which was adopted:

Resolved, That the price of chemicals and apparatus furnished students be fixed under the rules of the Board, by a committee consisting of the Dean of the School of Pharmacy, the Dispensing Clerk, and the purchasing agent of the Board, and that a copy thereof, with any changes made from time to time, be filed with the Treasurer.

The following resolution was also presented by Regent E. C. Walker, and unanimously adopted :

Resolved, That the thanks of the Board be given to Col. P. W. Norris, of Wayne County, Michigan, for the gift to the University of a wolverine, killed in the National Park—a gift specially appropriate, as its name is applied to the people of this State, and as the animal is extinct in our borders.

Acting President Frieze read a letter from Regent Grosvenor announcing with regret his inability to attend the present meeting of the Board. He also read a telegram from Regent Cutcheon stating that he should be present at the morning session of the Board on Wednesday the 7th instant.

Regent Duffield announced that he had prepared the Annual Report of the Regents to the Superintendent of Public Instruction, in accordance with the wishes and instructions of the Board, and that he would read and submit the same for consideration and action of the Board at this meeting.

Regent S. S. Walker also stated that he had prepared and had transmitted the Annual Report of the Board to his Excellency, the Governor.

A petition signed by 625 students of the University was presented by Regent S. S. Walker. The object of the petition having been stated, it was, on motion, laid on the table for the time.

The following resolutions, submitted by Regent Van Riper, were adopted :

1. *Resolved*, That Charles Fremont Dight, M. D., be appointed Assistant to the Professor of Pathology and the Practice of Medicine, at a salary of one hundred dollars a year, from July 1, 1881.

2. *Resolved*, That Schuyler Colfax Graves, M. D., be appointed Assistant Demonstrator of Anatomy, at a salary to be arranged by the Demonstrator, and Secretary of the Board, not exceeding \$500 a year; salary to commence from October 1, 1881.

The vote on the adoption of the above resolutions was as follows :

Ayes—Regents E. C. Walker, S. S. Walker, Duffield, and Van Riper.

Nays—None. *Not Voting*—Regent Blair.

Regent S. S. Walker presented the following resolution, which was adopted :

Resolved, That one thousand copies each of the memorial addresses on the deaths of Professor James C. Watson, ex-President E. O. Haven, and Professor George P. Williams, delivered under the auspices of the University Senate, be printed for the use of the University, provided the expense in each case shall not exceed the sum of forty dollars.

Ayes—Regents E. C. Walker, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

The Annual Report of the Board of Regents to the Superintendent of Public Instruction was read by Regent Duffield.

On motion, the report was approved, ordered to be signed, and transmitted to the Superintendent of Public Instruction.

On motion of Regent Van Riper, the Board adjourned to 9 o'clock A. M. to-morrow (Wednesday) morning.

MORNING SESSION.

Wednesday, December 7, 1881.

The Board of Regents reassembled in the room of the President at 9 o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, and Blair.

Absent—Regents Grosvenor and Shearer.

Acting President Frieze announced the special order of business to be the further examination of the charges preferred against Professor E. C. Franklin, of the Homœopathic Medical College, by Mr. C. H. Skeels ; said charges having been formulated by Regent E. C. Walker as follows :

1st. That on the 16th day of April he knowingly issued to C. Howard Skeels a false certificate of attendance upon the Homœopathic Medical College.

2d. That in defending himself against the above charge at a former meeting of this Board he introduced to the Medical Committee false and manufactured testimony tending to exculpate himself from said charge.

3d. That in violation of the express rules and action of the Board he published in the Ann Arbor "Daily News" a personal attack upon Professor Donald Maclean, of the Department of Medicine and Surgery.

The following resolution, submitted by Regent Van Riper, was adopted :

Resolved, That E. P. Goodrich, Stenographer for the Twenty-second Judicial District of Michigan, be and he is hereby appointed to report the testimony taken during the pending investigation, at the rate of \$5 a day.

Agreed to, by the following vote :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

The business of the pending investigation was now proceeded with ; at the close of the morning session the Board, on motion of Regent Van Riper, took a recess to 2 o'clock P. M.

AFTERNOON SESSION.

Wednesday, December 7, 1881.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, and Blair.

Absent—Regents Grosvenor and Shearer.

The following resolution, submitted by Regent Van Riper, was adopted :

Resolved, That Lena C. Leland, M. D., be and she is hereby appointed Assistant Demonstrator of Anatomy in the ladies' room of the Department of Medicine and Surgery, without salary.

The Board now resumed the unfinished business of the pending investigation. At the close of the afternoon session, on motion of Regent Van Riper, the Board took a recess to 7½ o'clock P. M.

EVENING SESSION.

Wednesday, December 7, 1881.

The Board reassembled in the room of the President at 7½ o'clock P. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper, and Blair.

Absent—Regents Grosvenor and Shearer.

The Board immediately resumed the special order of business for the evening session.

The close of the testimony in the pending investigation having been announced, Regent Van Riper moved that the counsel for the defence be permitted to address the Board, if he so desired.

The motion prevailed, and Hon. A. J. Sawyer addressed the Board at length.

At the close of the remarks of Mr. Sawyer, and of Regent Cutcheon, the Board, on motion of Regent E. C. Walker, went into executive session.

At the close of the business in executive session, the Board adjourned to meet in executive session to-morrow (Thursday) morning, at 8½ o'clock.

MORNING SESSION.

Thursday, Dec. 8, 1881.

The Board of Regents reassembled, in executive session, in the room of the President, at 8½ o'clock A. M.

Present—Acting President Frieze, Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Absent—Regents Grosvenor and Shearer.

At the close of the executive session, the unfinished business of an open session was resumed.

Regent E. C. Walker moved that permission to sign the names of the several members of the Board now present to the annual report of the Regents to the Superintendent of Public Instruction, be given Regent Duffield. There being no objection the motion prevailed.

The following resolution, presented by Regent E. C. Walker, was adopted :

Whereas, Henry Sewell, Ph. D., appointed Lecturer on Physiology in the Department of Medicine and Surgery for the second semester of the current year, had, before the notice of his appointment reached him, engaged himself for the year to John Hopkins University; therefore, in case he shall be unable to enter upon his duties the present year,

Resolved, That said Henry Sewell, Ph. D., be appointed Lecturer on Physiology, for the year commencing October 1, 1882, at a salary of \$2,200 a year.

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

The following preamble and resolution were read by Regent Cutcheon :

Whereas, Prof. H. S. Frieze, Curator of the Art Museum, in 1876, in connection with the exhibit of the University at the Centennial Exposition, prepared and published at his own expense a very full and complete catalogue of the art collection of the University, at a cost of \$265.50 for 2,000 copies, about 1,400 of which are now on hand, and the remainder have been used in the interest and for the benefit of the University; therefore

Resolved, That the sum of \$265.50 be, and the same is hereby appropriated from the general fund, to reimburse Prof. Frieze for his expenditure incurred in the publication of the Art Catalogue.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

Regent E. C. Walker submitted the following resolution, which was unanimously adopted :

Resolved, That Regent Cutcheon be, and he is hereby appointed a committee to prepare and present to the Board at the next meeting an expression of the regret of the Board, at the death of the distinguished Henry P. Tappan, LL.D., late President of this University.

Regent Cutcheon submitted the following resolution and recommended its adoption :

Resolved, That the sum of one hundred dollars be, and the same is hereby appropriated from the museum fund, for the purchase of a camera and microscope for the Botanical Department.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

The following paper was read by Regent E. C. Walker, and adopted :

The Board of Regents having taken in open session the evidence presented in regard to the charges made against Professor E. C. Franklin, and having heard the argument of his counsel, and considered the matter, do decide and determine, that the charges, 1st, that he knowingly issued a false certificate of attendance; and 2d, that he manufactured false testimony in an examination of the matter before the Board, are not sustained, and that Professor Franklin is honorable exonerated from the same.

That the decision of the 3d charge, of the willful violation of the rules of the Board, requiring more time for consideration than the Board can at present devote to it, be continued to the next meeting of the Board.

The vote on the adoption of the above paper was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

The following preamble and resolution, submitted by Regent Cutcheon, were unanimously adopted :

Whereas, Within the period of three months last past, the first Acting President of the University, George P. Williams, D.D., LL.D., and the first two Presidents, Henry P. Tappan, D.D., LL.D., and Erastus O. Haven, DD., LL.D., have all passed away from the scene of their earthly labors; and

Whereas, It is desirable to preserve to the future some memorial of these distinguished men, while the material is readily accessible, and their memory is still green upon the scene of their former service; therefore:

Resolved, That a committee of three, of which the Acting-President shall be chairman, be appointed to investigate and report the most appropriate method of preserving some memorial of our honored dead, in marble or on canvas; also, what information is accessible for the preparation of such memorial, and at what cost to the University it can be procured.

The following is the committee appointed in accordance with the resolution of Regent Cutcheon :

Committee—H. S. Frieze, B. M. Cutcheon, S. S. Walker.

Regent VanRiper submitted the following preamble and resolution, which were adopted :

Whereas, The matron of the University Hospital, in a communication to Regent Grosvenor, complains of her inability to board the patients of that hospital and obtain any reasonable compensation for her services at the rate now allowed—being \$3.00 a week—therefore,

Resolved, That the matter be referred to the hospital staff, to do as they may deem proper in regard to the increase in the amount now charged for board of patients in the hospital,—the matron being allowed to charge a sum not exceeding \$4.00 a week.

Regent S. S. Walker presented a statement showing the amount of money that had been paid by James Appleyard for labor and material furnished for protection of sewer against frost, amounting to the sum of \$24.75, which, on his motion, was ordered paid, by vote, as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, VanRiper, and Blair.

Nays—None.

A statement, showing the balance due James Appleyard for making sewer connections, was also read by Regent E. C. Walker, and, on his motion, the balance due was ordered paid, and vouchers for the amount paid be made in the usual form and placed on file.

The vote on the motion was as follows :

Ayes—Regents E. C. Walker, Cutcheon, S. S. Walker, Duffield, Van Riper and Blair.

Nays—None.

A statement from the Treasurer of the University showing the receipt and expenditures of money since the last meeting of the Board, was presented by Regent E. C. Walker, and ordered placed on file.

On motion, the Board adjourned.

H. D. BENNETT,
SECRETARY.

MARCH MEETING.

UNIVERSITY OF MICHIGAN,
Tuesday, March 29, 1882. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M.

Present—the President, Regents Cutcheon, Walker, Van Riper, Grosvenor, Blair, and Joy.

The meeting was opened with devotional exercises by the President.

On motion of Regent Van Riper, the minutes of the last meeting were approved as printed.

The President stated that he had received several communications which he desired to present to the Board, and suggested that the papers be received and referred to appropriate committees. Agreed to.

The communication relative to conferring the degree of Doctor of Medicine upon Mr. W. C. Jones, of the Homœopathic Medical College, was laid on the table for the time.

A communication from Mr. E. C. Hegeler was read by the President, and, on motion, it was referred to the Committee on the Department of Literature, Science, and the Arts.

On motion of Regent Blair, Regent Joy was temporarily added to the Committee on Finance.

Regent Blair moved that the Board take a recess till 2 o'clock P. M., which was agreed to.

AFTERNOON SESSION.

Tuesday, March 29, 1882.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—the President, Regents Walker, Van Riper, Grosvenor, Blair, and Joy.

Absent—Regents Cutcheon, Duffield, and Shearer.

Regent Grosvenor moved that the Board do now go into executive session. The motion prevailed.

At the close of the executive session, the business of an open session was resumed.

On motion of Regent Joy, Professor V. M. Spalding was granted leave of absence for five days, in accordance with his request.

The following communication was read by Regent Grosvenor :

UNIVERSITY OF MICHIGAN,
COLLEGE OF DENTAL SURGERY,
ANN ARBOR, March 28, 1882. }

To the Honorable Board of Regents :

The Faculty of the Dental College present and recommend the following named persons, each of whom has sustained a satisfactory examination in the prescribed course of studies, for the degree of Doctor of Dental Surgery.

Very respectfully,

J. TAFT, Dean.

George Post Ashton.....	Warrensburgh, Mo.
Wellington Brainard Banks.....	Detroit.
Frederick James Barnes.....	Delaware, O.
Fred Thompson Bell.....	Aurora, Ill.
James Christopher Bush.....	Hardinsburgh, Ky.
Wesley John Campbell.....	Malone, N. Y.
Jennie Marietta Clark.....	Milwaukee, Wis.
Charles Elbert Cleveland.....	Chicago, Ill.
Edward Carroll Condict.....	Dover, N. J.
Herbert Lee Davis.....	Fostoria, O.
Bernard John DeVries.....	Holland.
Charles Albert Eckert.....	Trenton, O.
Margaret Humphreys.....	Xenia, O.
Henry Atherton Knight.....	Minneapolis, Minn.
Joseph Bonnell Little.....	Fond du Lac, Wis.

Harry Mitchell Loughridge.....	Mansfield, O.
Julien Wellington Lyon.....	Akron, O.
Hattie Lovina Martindale.....	Grand Rapids.
Kate Cameron Moody.....	Mendota, Ill.
Frank Scott Morrison.....	Martin's Ferry, O.
Edward Morgan Nutting.....	Randolph, N. Y.
Romeyn Melvin Paine.....	Springport.
Charles Francis Porter.....	Bay City.
William Henry Priestman.....	Neponset, Ill.
Joseph Lee Rose.....	Mobile, Ala.
Walter Irving Southerton.....	Bay City.
Edmund Pease Stiles.....	Austin, Tex.
Wilber Andrew Studley.....	Springville, N. Y.
Robley Owen Sturgeon.....	Salem, O.
Harry Bryant Tileston.....	Evansville, Ind.
William A. B. Treadway.....	Norwich, Conn.
James Marrion Welch.....	Baltimore, Md.

Regent Grosvenor submitted the following resolution :

Resolved, That the degree of Doctor of Dental Surgery be and hereby is conferred on the persons named in the communication just read, in accordance with the recommendation of the Faculty.

The resolution was unanimously adopted.

The following communication from the Dean of the Faculty of the Department of Law was read by Regent Van Riper :

To the Honorable, the Board of Regents of the University of Michigan :

The Faculty of Law respectfully report that the persons named below have severally completed the Law Course, and complied with all the rules required to entitle them to the degree of Bachelor of Laws.

They therefore respectfully recommend that the degree be conferred upon them.

THOMAS M. COOLEY, Dean.

ANN ARBOR, March 28, 1882.

Greenbury Wilson Allen.....	VanWert, O.
Robert Barnwell Allison.....	Lancaster C. H., S. C.
Edward Emil Anneke.....	Bay City.
Henry Franklin Auten.....	St. Johns.
John Huff Bain.....	Murphysboro, Ill.
William W. Baker.....	Walla Walla, W. T.
Frank Edwin Ballard.....	Findley, O.
Henry Fisher Barnard.....	Detroit.
Louis Frédéric Bartels.....	Denver, Col.
Hector Baxter.....	Ann Arbor.

Singleton Bell.....	Lumber City, Pa.
William Seward Bemis.....	Independence, Ia.
Albert Othwaite Blackwell.....	Marquette.
Chester Gamber Blaine.....	Ovid, N. Y.
Matthew Clay Bonney.....	Taylor, Mo.
George B. Boone.....	Toledo, O.
Charles Francis Bough.....	West Point, O.
Spencer A. Bowes.....	Sharon Centre, O.
Harry Ellis Bradford.....	Belton, Tex.
Dwight Chauncey Branch.....	Ann Arbor.
Marcy Kent Brown.....	Kansas City, Mo.
Aaron Rutherford Bryan.....	Rockton, Wis.
Isaiah Burrey.....	Vicksburgh, Pa.
Robert Neil Campbell.....	Welland, Ont.
Charles Sumner Careins.....	Decatur, Ill.
Joseph Henry Chamberlin.....	Sterling, Ill.
Ira Washington Christian.....	Noblesville, Ind.
John Wesley Clarke.....	Bay City.
Edwin Charles Clifford.....	Kalamazoo.
Alfred H. Cobb.....	Wyandotte, Kas.
William Sceptimus Cobb.....	Jackson.
Chauncey Ferris Cook.....	Hillsdale.
William Wilson Cook.....	Hillsdale.
Phillip Corbett.....	Anderson, Ind.
William Erastus Crane.....	Saginaw.
William LeRoy Crissman.....	Washington.
Cyrus Edgar Davis.....	Martinsville, Ind.
Isaac Newton Deck.....	Litchfield, Ill.
William Ira Drum.....	Clinton, Mo.
Asbury Duglay.....	Fort Wayne, Ind.
Joe Leonidas Elliott.....	New Castle, Ind.
Albert Milton Ensminger.....	Bucyrus, O.
Thomas Jefferson Eveland.....	Litchfield.
William Henry Eyerett.....	Ann Arbor.
William Carl Feld.....	Kansas City, Mo.
William Henry Fellows.....	Fulton, Ill.
Neil Byron Ferguson.....	Winnipeg, Manitoba.
Henry Power Field.....	Amherst, Mass.
Thomas Geyer Fitch.....	Chicago, Ill.
John Spencer Flanders.....	Sturgis.
Frank Henry Foster.....	Walpole, N. H.
Edwin Graham Frampton.....	Beaver, Pa.
David Spear Frackelton, Jr.....	Petersburgh, Ill.
Jesse Adelbert Frye.....	Capron, Ill.
Edward George.....	Rochester, Minn.
Henry Clay Gesford.....	Napa, Cal.
Fred Henry Gile.....	Alfred, Me.
Frank Howard Goodman.....	Birmingham.
Victor Michael Gore.....	Carlinville, Ill.
Charles Lawrence Grannis, Jr.....	High Forest, Minn.
Myron Gue.....	Midland.
Charles Sumner Guile.....	Mason.

Nat Gunter	Sherman, Tex.
Charles Homan Hamlin	Lincoln, Neb.
Stephen Van Renssalaer Hayes	Whitehall, N. Y.
George Patterson Hopkins	Kalamazoo.
William Banfill Hord	Columbus, Ind.
Walter Shurts Horton	Delavan, Ill.
Walter Henry Hughes	Grand Rapids.
Ormond Fremont Hunt	Ann Arbor.
Henry E. Jeffers	Lansing.
William Benjamin Johnson	Hamilton, Ky.
John Martyn Kane	Port Huron.
Thomas Young Kayne	Toronto, Ont.
Thomas Joseph Kelly	St. Thomas, Ont.
Peter Frank Koontz	St. Louisville, O.
Walter Joseph Lamson	South Saginaw.
Johnson Hill Lane	McLeansborough, Ill.
Jeremiah Boyle Larimer	Topeka, Kan.
Richard Latham	Chicago, Ill.
Charles Gray Lawrence	Hiawatha, Kan.
Christopher Columbus Layman	Ann Arbor.
Edward Bruce Lemmon	Constantine.
DeWitt Clinton Lewis	Audubon, Ia.
George Ernest Lindsley	Mexico, N. Y.
Frederick Albert Mann	Big Rapids.
James Franklin Mann	Decatur, Ind.
John Patrick Mann	Elgin, Ill.
William Franklin Mann	Kokomo, Ind.
Samuel Willard Margerum	Middletown, O.
Edward Horace Marsh	Rockford, Ill.
Henry Ward McArthur	Cheboygan.
George Comyn McCrone	Quincy, Ill.
Robert Gordon McEvoy	Rockford, Ill.
Addison Guyer McKean	Athens, Pa.
William Willard McMahan	Rochester, Ind.
Archibald Watson McNaughton	Jackson.
William P. McOsker	Elgin, Ill.
Merton Meeker	Hillsdale.
David Henry Mercer	Brownville, Neb.
George Weaver Merriman	Plainwell.
Louis Cornelius Miller	Marshall.
Auston Mires	Oakland, Or.
William Harold Murphy	Abingdon, Ill.
John Alexander Murray	Ottumwa, Ia.
Harvey Musser	Aaronsburg, Pa.
Mason Jenks Niblack	Vincennes, Ind.
Mark Norris	Grand Rapids.
Sheldon Parks	Salem, O.
Elam Harvey Patterson	Sheldon, Ill.
Joseph Robert Patton	San Jose, Cal.
William Franklin Paxton	Greenville, Miss.
William Oscar Pealer	Three Rivers.
Curtis Emerson Pierce	West Bay City.

Charles Lyman Pike.....	Joliet, Ill.
Edward Isaac Prickett.....	Edwardsville, Ill.
George Willits Pursel.....	Plainwell.
Samuel Albert Ramsey.....	Pittsburgh, Pa.
William Frederic Reed.....	Pomeroy, O.
Charles Stephen Reeves.....	Elgin, Ill.
James Waldron Remick.....	Littleton, N. H.
Charles George Renner.....	Martinsville, Ind.
Frank B. Richards.....	Joliet, Ill.
B. F. Roach.....	Harrodsburgh, Ky.
James Edward Robbins.....	Westport, Pa.
David Evan Roberts.....	Constableville, N. Y.
Willis Asa Rogers.....	Grand Rapids.
Charles Luther Romberger.....	Princeton, Ill.
Byron Newton Rooks.....	Ann Arbor.
Eugene Lester Rooks.....	Ann Arbor.
David Sanford, Jr.....	St. Paul, Minn.
Otto Edward Sauter.....	Chicago, Ill.
Robert T. Scott.....	Cambridge, O.
George William Sharp.....	Elyria, O.
William Emmitt Shepherd.....	Huron, O.
Thomas David Shirkey.....	Proctorville, O.
Thomas Wister Shreve.....	Martin's Ferry, O.
Henry Smith Slaughter.....	Evansville, Ind.
Kenneth R. Smoot.....	Ann Arbor.
Frank Holcomb Snyder.....	Germantown, O.
Zechariah Spitzler, Jr.....	Kentland, Ind.
Joseph Snowberger Stayer.....	Bedford, Pa.
W. Melvine Stephens.....	Lenoxville, Pa.
William Ward Sutton.....	Ottawa, O.
George L. Swain.....	New Castle, Ind.
Almon Nicholas Taylor.....	Portland, N. Y.
Charles Edward Temple.....	Grand Rapids.
Charles Fawcett Teter.....	Phillippi, W. Va.
Cassius Thayer.....	Grand Rapids.
Fred Thomas.....	Ann Arbor.
John G. Thompson.....	Rossville, Ill.
Edward Francis Tierney.....	Kalamazoo.
Samuel Clay Turley.....	Napoleon.
Ralph Waldo Emerson Twitchell.....	Kansas City, Mo.
Christopher Harrison VanArman.....	Hastings.
John Thomas Walterhouse.....	Muncie, Ind.
Frank Rutherford Waruer.....	Lansing.
Irvine Watson.....	Sharon, Pa.
Isaac Hill Webb.....	McLeansborough, Ill.
Ellsworth Elmer Weir.....	LaPorte, Ind.
Charles R. Wheeler.....	Howard City.
Orlando Winfield Whitelock.....	Huntington, Ind.
Benjamin Elijah Williams.....	Waterport, N. Y.
John Oren Wilson.....	St. Louis.
Charles Nelson Wood.....	Logan, Ia.
William Robert Wood.....	Oxford, Ind.

Laura Anna Woodin.....	Romeo.
Americus Hodge Woodward.....	Philadelphia, Pa.
William Andrew Wright.....	Sherman, Tex.
Charles William Zane.....	Springfield, Ill.

The following resolution, presented by Regent Van Riper, was adopted :

Resolved, That the degree of Bachelor of Laws be and is hereby conferred upon each of the persons named in the above communication from the Dean of the Faculty of Law, in accordance with the recommendation of that Faculty.

A communication from Professor Donald Maclean was received, and read by Regent Grosvenor, chairman of the Committee on the Medical Department. Referred to that Committee.

On motion, the Board took a recess to 7½ o'clock P. M.

EVENING SESSION.

Tuesday, March 28, 1882.

The Board reconvened in the room of the President at 7½ o'clock.

Present—the President, Regents Walker, Van Riper, Grosvenor, Blair, and Joy.

Regent Walker submitted the following resolution :

Resolved, That the request of the Board of Education of the city of Ann Arbor, to erect on the Observatory grounds an Observatory for the use of the schools of the city of Ann Arbor, be acceded to ; the same to be under the direction of the Committee on Buildings and Grounds as to location ; and that the Board reserve the right to terminate at any time the occupation of the grounds by said Board of Education, by due notice served on the President thereof.

On motion of Regent Grosvenor, the resolution of Regent Walker was referred to the Executive Committee, with instructions to report at the next meeting of the Board.

Regent Blair offered the following resolution :

Resolved, That when this Board adjourns, it adjourn to the 2d day of May next, at 10 o'clock A. M.

The resolution was adopted.

On motion of Regent Joy, the Board went into executive session. At the close of the executive session, business in open session was resumed.

Regent Grosvenor presented a statement of the receipts and disbursements of the Treasurer since the last meeting of the Board, which was received and placed on file.

The following resolution was also presented by Regent Grosvenor :

Resolved, That the Auditing Board be and are hereby authorized to borrow a sum not exceeding ten thousand dollars, for ninety days, at the lowest rate of interest practicable.

The vote was as follows :

Aye.—Regents Walker, Van Riper, Grosvenor, Blair, and Joy.

Nay.—None.

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That Professor Henry C. Adams be appointed Lecturer on Political Economy for one term of the next university year, at a salary of eleven hundred dollars for the term.

The vote was as follows :

Aye.—Regents Walker, Van Riper, Grosvenor, Blair, and Joy.

Nay.—None.

Regent Walker presented the following resolution :

Resolved, That the title of Louisa Reed Stowell be and is hereby changed to that of " Assistant Professor of Microscopy and Instructor in Structural Botany."

On motion, the resolution of Regent Walker was referred to the Committee on the Department of Literature, Science, and the Arts.

Regent Walker also submitted the following resolution, which was adopted :

Resolved, That the sum of thirty dollars be und is hereby appropriated for the payment of a map of the campus showing the location of the sewer, gas, and water pipes, and that the sum named be paid to Professor Charles E. Greene, who furnished said map in accordance with a request of the Board.

The vote on the adoption of the resolution was as follows :

Aye.—Regents Walker, Van Riper, Grosvenor, Blair, and Joy.

Nay.—None.

Regent Van Riper moved that the Board adjourn to 9 o'clock to-morrow (Wednesday) morning. The motion prevailed.

MORNING SESSION.

Wednesday, March 29, 1882.

The Board reassembled in the room of the President at 9 o'clock A. M.

Present—the President, Regents Cutcheon, Van Riper, and Grosvenor.

There being no quorum present, the Board adjourned to Tuesday, May 2, 1882, at 10 o'clock A. M.

H. D. BENNETT,

SECRETARY.

MAY MEETING.

1882.

MORNING SESSION,

UNIVERSITY OF MICHIGAN,
Tuesday, May 2, 1882. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M., pursuant to adjournment.

Present—the President, Regents Duffield, VanRiper, and Grosvenor. No quorum being present, on motion of Regent Grosvenor, a recess was taken to 7½ o'clock P. M.

EVENING SESSION.

The Board reconvened, at 7½ o'clock P. M., in the room of the President.

Present—the President, Regents Cutcheon, Walker, Van Riper, Grosvenor, and Blair.

Regent Walker renewed the motion for the appointment of the Standing Committees of the Board for the coming year.

Regent Blair moved that the motion of Regent Walker be temporarily laid on the table. The motion prevailed.

On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

Regent Grosvenor, submitted the following resolution :

Resolved, That the charges made and filed with the Secretary of this Board by Dr. Donald Maclean vs. Dr. E. C. Franklin, be now taken up, examined, and, if practicable, finally disposed of.

Pending a vote on Regent Grosvenor's resolution, Regent Walker submitted the following resolution, which was adopted :

Resolved, That the matter of the charges, *pro* and *con*, Maclean vs. Franklin, be made the special order for to-morrow afternoon at 2 o'clock ; that notice of this appointment be forthwith conveyed to Professor Franklin, and that he be requested to appear at that time with whatever witnesses or documents he may desire to present as sustaining the position it is alleged he holds ; and that Professor Maclean be also forthwith notified of the said appointment, and to appear likewise in the same manner prepared ; that such service be conveyed by serving on each of the said gentlemen a certified copy of this resolution.

In accordance with a request of the Board, Dr. George E. Frothingham presented a printed statement of the complaints and charges made by himself against Dr. D. A. Joy, and requested that he (Frothingham) be permitted to present additional testimony touching said charges, if desirable to do so.

Regent Cutcheon moved that Dr. Frothingham be granted permission to submit additional testimony, provided that it could be done immediately, and that the information should be strictly relevant and reasonably brief. Agreed to.

Mr. John Harris, Jr., of Detroit, was called and testified as a witness.

On motion of Regent Blair, the Board adjourned till 9 o'clock to-morrow (Wednesday) morning.

MORNING SESSION.

Wednesday, May 3, 1882.

The Board of Regents reassembled in the room of the President at 9 o'clock A. M.

Present—the President, Regents Cutcheon, Walker, Duffield, VanRiper, and Blair.

Regent Cutcheon stated that it was exceedingly desirable and important that the Standing Committees of the

Board should be at once reorganized, to the end that important business pending and to come before the Board might be duly considered and disposed of. He would therefore move, that Regent Walker's resolution for a recast of the Standing Committees of the Board be taken from the table. The motion prevailed.

Regent Blair presented the following resolution :

Resolved, That a committee consisting of Regents Walker, Duffield, and VanRiper be appointed to make a recast of the Standing Committees of the Board, and that said committee be requested to report at this meeting, as soon as practicable.

Pending a vote on Regent Blair's resolution, Regent Van Riper asked to be excused from serving on the committee; and suggested that Regent Blair be substituted, which was agreed to. The resolution of Regent Blair was then adopted.

After a brief suspension of business by the Board, the committee appointed to make a recast of the committees, presented through their chairman, Regent Walker, the following report, which was adopted :

To the Honorable, the Board of Regents :

Gentlemen,—The committee appointed for that purpose, have agreed upon and do recommend the following reorganization of the Standing Committees of this Board, to wit :

Executive Committee—The President, Regents Blair, Cutcheon and Duffield.

Finance Committee—Regents Walker, Grosvenor, and Van Riper.

Committee on Literary Department—Regents Cutcheon, Duffield, and Joy.

Committee on Law Department—Regents Joy, Blair, and Shearer.

Committee on Medical Department, Homœopathic Medical College, and College of Dental Surgery—Regents Grosvenor, Joy, and Van Riper.

Library Committee—Regents Duffield, Van Riper, Walker, and the President.

Committee on Museum, School of Mines, and Astronomical Observatory—Regents Van Riper, Blair, and Cutcheon.

Committee on School of Pharmacy—Regents Joy, Shearer, and Blair.

Committee on Buildings and Grounds—Regents Shearer, Walker, and Grosvenor.

The following paper, by Regent Cutcheon, was read, accepted, and, on motion of Regent Walker, was ordered to be printed in the minutes :

This Board has learned with profound regret of the decease at Vevay, Switzerland, on the 15th day of November, 1881, of the venerable Henry P. Tappan, D. D., LL. D., first President of this University.

Dr. Tappan had long exceeded the assigned limit of three score years and ten, and passed away after his life's work had been honorably completed.

This Board desires here to place upon record its high appreciation of the learning of Ex-President Tappan as a scholar, his ability as an educational organizer, and his virtues as a man.

We recognize the fact that Dr. Tappan, as first President of this University, very largely contributed to lay its foundations upon that broad and liberal plan which has resulted in rearing its superstructure as a real University, as distinguished from the College.

We believe that much of its success has been determined by the large and wise ideal upon which it was modeled by President Tappan.

For the conspicuous part which he took in the organization of the University; for the illustrious service which he rendered to the cause of higher education in the new Northwest, his name will be held in lasting remembrance in this scene of his labors.

While we thus testify to our appreciation of his worth and services, we extend to his venerable consort and the other members of his family our condolence in their sorrow; a sorrow that must be mitigated by the memory of his useful life, and the assurance of a blessed future.

The Board now went into executive session. After a brief time spent therein, business in open session was resumed.

Regent Cutcheon presented the following resolution, which was unanimously adopted.

Resolved, That the request of Professor Geo. S. Morris, for leave of absence during the first semester of the next ensuing year, for the purpose of delivering lectures at the Johns Hopkins University, and for other work at the East, be granted, upon the condition, as proposed by Professor Morris, that he release to the University a half year's salary.

The following resolution was also presented by Regent Cutcheon, and was adopted:

Resolved, That the matter of holding examinations in the Department of Literature, Science and the Arts away from the University, be referred to the Committee upon that Department, with instructions to report at this meeting of the Board.

Regent Walker submitted the following resolution and recommended its adoption :

Resolved, That the request of Mrs. Stowell for the use during the summer vacation of six microscopes, the property of the University, at the proposed Summer School at Petoskey, be granted, on condition that she receipt to the Steward for the same, agreeing to become responsible for their safe and prompt return before the beginning of the next academic year.

The resolution was adopted.

The following papers from the Secretary of the Department of Literature, Science, and the Arts, and from the Dean of the School of Political Science were read by Regent Cutcheon :

To the Honorable, the Board of Regents :

The Faculty of the Department of Literature, Science, and the Arts beg leave to report the action they have taken under the resolution adopted at the meeting of the Board, in September, 1881, in the matter of adjusting " the terms or conditions for advanced degrees." See page 89 of the printed minutes of Proceedings.

The Faculty have given a large amount of time to the consideration of the immediate question at issue, and of such other questions as seemed to be intimately connected with it. As a result of such consideration they recommend that the relation of the School of Political Science to the Department of Literature, Science, and the Arts, be more precisely defined, and that the requirements for degrees, both in that School, and in this Department, be fixed in accordance with the provisions of the following scheme :

(1) The School of Political Science, though still regarded as a part of the Department of Literature, Science and the Arts, shall be practically an independent organization, so far as relates to the general administration of the work of the School, except as provided below.

(2) The members of the special Faculty of the School of Political Science shall also be members of the Faculty of the Department of Literature, Science, and the Arts.

(3) All candidates for degrees in the Department of Literature, Science, and the Arts, including those whose work has been done wholly or in part

in the School of Political Science, must be recommended to the Board of Regents by the Faculty of the Department.

(4) The "credit system" as at present administered shall remain in force for students that wish to obtain a Bachelor's degree under the provisions of that system.

(5) The present system of conferring a Master's degree on the completion of thirty Full Courses shall be discontinued.

(6) Students that have taken a Bachelor's degree on the "credit system" may be recommended by the Faculty for the corresponding Master's degree after an additional year of residence at the University, provided they pass a satisfactory examination on an approved course of study and present a satisfactory thesis.

(7) Students that have completed their second year in the Department of Literature, Science, and the Arts, and have also completed all the prescribed work offered in the first two years in some one of the several lines of study leading to a Bachelor's degree, may be allowed to choose whether they will continue their work on the "credit system" or on the so-called "university system."

(8) Students working on the "university system" will not be held to the completion of a fixed number of Courses, though they must take an amount of work approved by the Faculty, or by a special committee of the Faculty, and will be held subject to all the rules relating to attendance and to examinations unless excused by the proper authority. Before they can be recommended for a degree, however, they must have completed all the Courses prescribed for the degree sought.

(9) Any student working on the "university system" may be admitted to a special examination for a degree at a date not earlier than the end of his fourth year of residence at the University, the examination to be conducted under the direction of those officers of instruction with whom such student has pursued the major part of his work. The degree conferred on such student may be either a Bachelor's or Master's degree, and may be distinguished as conferred "with distinction," "with high distinction," "with the highest distinction," "*cum laude*," "*magna cum laude*," or "*summa cum laude*," according to the merit of the student, it being understood that the presentation of a thesis shall in all cases be necessary for the attainment of a Master's degree. The title of the degree, whether in Arts, Philosophy, Science, or Letters, shall be determined by the character of the prescribed work completed by the student.

(10) The Doctor's degree shall be conferred only on persons that have previously received a Bachelor's or Master's degree.

(11) The Doctor's degrees shall be conferred only on persons that have made special proficiency in some one branch of study and good attainments in two other branches, and upon presentation of a thesis that shall evince power of research and of independent investigation.

(12) The degree of Doctor of Philosophy shall be open to persons that have received the degree of Bachelor of Arts, Bachelor of Philosophy, Bachelor of Letters (Latin), or a corresponding Master's degree; the degree of Doctor of Science to persons who have received the degree of Bachelor of Science or Master of Science; and the degree of Doctor of Letters to persons that have received the degree of Bachelor of Letters or of Master of Letters.

(13) No person shall be admitted to the examination for a Doctor's degree in less than two years from the date of his first degree, whether that be

a Bachelor's or a Master's degree, except such persons as shall have received a Master's degree with some special mark of distinction. Such persons may present themselves for examination for a Doctor's degree in one year after the attainment of the Master's degree.

Respectfully submitted,

P. R. DE PONT,
Secretary of the Faculty.

To the Honorable, the Regents of the University:

At a meeting of the Faculty of the School of Political Science, held May 2, 1882, the following resolution was adopted:

Resolved, That having considered the recommendations of the Faculty of the Department of Literature, Science, and the Arts concerning the relations of the School of Political Science to that Department, we hereby approve of the same, and respectfully recommend their adoption by the Regents of the University.

C. K. ADAMS,

Dean of the School of Political Science.

UNIVERSITY OF MICHIGAN, May 2, 1882.

At the close of the discussion of the paper just read, Regent Cutcheon presented the following resolution, which was adopted:

Resolved, That the recommendation of the Faculty of the Department of Literature, Science, and the Arts in regard to the relations of the School of Political Science, and the conferring of advanced degrees, be adopted and ratified; and that the Faculty of said Department be authorized to arrange the details for carrying out the provisions as to courses and degrees as therein recommended; and that the Committee be discharged from further consideration of the subject.

The following resolution, by Regent Cutcheon, was also adopted:

Resolved, That the titles of the degrees of Bachelor of Letters (Latin) and Master of Letters (Latin) be changed to Bachelor of Philosophy, and Master of Philosophy, respectively.

Regent Blair moved that the Board take a recess to 2 o'clock P. M. Agreed to.

AFTERNOON SESSION.

Wednesday, May 3, 1882.

The Board of Regents reassembled in the room of the President at 2 o'clock P. M.

Present—the President, Regents Cutcheon, Walker, Duffield, Van Riper, Blair, and Joy.

The President announced the special order of business for the hour to be the consideration of the charges made by Dr. Donald Maclean against Dr. E. C. Franklin.

Regent Duffield moved that the Board proceed to the examination of the charges as presented by Dr. Maclean, which was agreed to, both parties being present.

On motion of Regent Walker, Regent Van Riper was requested to conduct the examination in behalf of the Board.

Dr. Donald Maclean stated that he had prepared a statement, which had been printed in pamphlet form, covering all he desired to say relative to the pending charges under consideration. He further stated that he desired to place a copy of the paper in the hand of each member of the Board, for examination.

Regent Van Riper called for the reading of the paper by Dr. Maclean.

By unanimous consent and request of the Board, the paper was read, accepted, and ordered placed on file.

In reply to an inquiry of Regent Van Riper, Dr. E. C. Franklin stated that he was not then prepared to answer the charges made by Dr. D. Maclean, except by general denial.

The special order of business having been closed, the Board went into executive session. After a brief time spent therein, business was again resumed in open session.

Regent Walker submitted the following resolution, which was adopted :

Resolved, That the Committee on Buildings and Grounds be directed to inquire into the request of Dr. Winchell concerning his room in the Museum, with power to act on the matter as in their judgment may be best.

Regent Blair stated that at the last meeting of the Board, Regent Walker presented the following resolution,

which, on motion of Regent Grosvenor, was referred to the Executive Committee :

“ Resolved, That the request of the Board of Education of the city of Ann Arbor, to erect on the Observatory grounds an Observatory for the use of the schools of the city of Ann Arbor, be acceded to ; the same to be under the direction of the Committee on Buildings and Grounds as to location ; and that the Board reserve the right to terminate at any time the occupation of the grounds by said Board of Education, by due notice served on the President thereof.”

Having given the matter due consideration, and failing to discover any valid objection to granting the privilege asked for, he desired to submit the following resolution, and would recommend its adoption :

Resolved, That the request of the Board of Education of the city of Ann Arbor, to erect on the Observatory grounds an Observatory for the use of the schools of said city, be and is hereby granted, on the conditions named in the foregoing resolution.

The resolution was unanimously adopted.

The following report was read by Regent Cutcheon :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Committee on the Department of Literature, Science, and the Arts, to whom was referred the matter of holding entrance examinations away from the University, in some of the larger cities, have had the same under consideration, and report that they deem it advisable to continue such examinations so far as the means at our disposal will allow, but not to exceed in any event the sum of three hundred dollars.

They recommend that one member of the Faculty be detailed to hold such examinations in each of the cities of Chicago, St. Louis, and Cincinnati, and that such member of the Faculty be authorized to call to his assistance alumni of this University in those cities, to aid in such examination.

B. M. CUTCHEON,

J. F. JOY,

GEORGE DUFFIELD.

The vote on the adoption of the report was as follows :

Aye.—Regents Cutcheon, Walker, Duffield, Van Riper, Blair, and Joy.

Nay.—None.

Regent Cutcheon submitted the following resolution, which was adopted unanimously :

Resolved, That the thanks of this Board are hereby tendered to B. F. Sturtevant, of Boston, Mass., for his gift of a No. 1 Steel Pressure Blower, for use in the Mechanical Laboratory of the University.

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That the Homœopathic Faculty be authorized to use the upper room in the Homœopathic Medical College, being the old dwelling portion, for hospital purposes ; and that they be authorized, under the direction of the Secretary of the Board, to place beds therein for hospital use, and that the expense thereof be charged to the Homœopathic Hospital Fund.

The vote was as follows :

Aye.—Regents Cutcheon, Walker, Duffield, Van Riper, Blair, and Joy.

Nay.—None.

Regent Van Riper presented the following resolution :

Resolved, That the Treasurer of the University be authorized to employ a clerk to aid him in the duties of his office, at a salary not exceeding \$45 per month.

Regent Walker moved that the resolution be accepted and referred to the Committee on Finance, with power to make an appointment of a clerk when they deem it necessary. The motion prevailed.

The following communication was read by Regent Walker :

To the Honorable, the Board of Regents :

We the undersigned, members of the Senior Class, would respectfully request the use of Room A, for dancing purposes, at the ensuing Commencement. It will tend to decrease the expenses of Class Day, and at the same time will make the affair much more satisfactory to all parties concerned.

Respectfully,

F. W. WHITING,

F. B. LELAND,

W. E. CHANDLER,

R. G. WEST,

For Senior Class.

Regent Walker presented the following resolution, which was adopted :

Resolved, That the request of the Senior Class as above indicated be granted.

The following resolution, submitted by Regent Cutch-eon, was adopted :

Resolved, That a special committee consisting of Professors Winchell, Prescott, and Harrington, be and is hereby appointed to take into consideration the relation of instruction in Microscopy to the various Departments of the University, and that said committee report at the June meeting of the Board a systematic plan for such instruction, as well as all matters of fees for the use of microscopes, and other matters pertaining to such instruction.

Regent Van Riper read the following communication :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, May 2, 1882. }

To the Honorable, the Board of Regents :

The Faculty of the Homœopathic Medical College respectfully recommend W. C. Jones for the degree of Doctor of Medicine, he having fully complied with all the requirements of the College and the University.

T. P. WILSON, Dean.

By order of the Faculty.

The following resolution, presented by Regent Van Riper, was adopted :

Resolved, That the degree of Doctor of Medicine be and is hereby conferred upon William Charles Jones, in accordance with the recommendation of the Faculty of the Homœopathic Medical College.

The following preamble and resolution, submitted by Regent Van Riper, were unanimously adopted :

WHEREAS, Charges affecting the professional and moral character of Professor Donald Maclean have been presented to this Board ; and whereas, such charges have been duly investigated, and not sustained ; therefore,

Resolved, That we as a Board hereby express our confidence in Professor Donald Maclean, as a man whose character is above reproach, and that we as a Board believe the charges urged

against him to be without any foundation whatever, and that he has in all things acted with a view to the best interests of the University of Michigan.

Regent Cutcheon submitted the following resolution :

Resolved, That the Committee on Literary Department be granted further time to report on the matter of the change of title of Mrs. Louisa Reed Stowell.

The resolution was adopted.

The following communication was read by Regent Van Riper :

UNIVERSITY OF MICHIGAN, }
May 3, 1882.

To the Honorable, the Board of Regents :

The Faculty of the Homœopathic Medical College respectfully request that the Board allow two of their number, as they shall select, to be allowed absence to attend the session of the American Institute of Homœopathy, being our national medical body, at its next meeting at Indianapolis, Ind., the second or third week of next June.

Respectfully,

T. P. WILSON, Dean.

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That Dr. T. P. Wilson, Dean, be granted leave of absence to attend the American Institute of Homœopathy at its next meeting at Indianapolis, Ind., during the second or third week in June next.

On motion of Regent Van Riper, the Board adjourned.

H. D. BENNETT,
SECRETARY.

JUNE MEETING.

1882.

UNIVERSITY OF MICHIGAN,
Tuesday, June 27, 1882. }

The Board of Regents assembled in the room of the President at 10 o'clock A. M.

Present—the President, Regents Cutcheon, Walker, Duffield, and Grosvenor.

No quorum being present, on motion of Regent Grosvenor, the Board took a recess till 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—the President, Regents Cutcheon, Walker, Duffield, Grosvenor, and Shearer.

The meeting was called to order, and opened with devotional exercises by the President.

On motion of Regent Walker, the minutes of the last meeting were approved as printed.

Regent Grosvenor presented the following resolution :

Resolved, That the claim of Dr. C. Kirkpatrick for services rendered as doorkeeper at the hospital amphitheatre during

clinics for the year 1880-81, amounting to fifty dollars, be and hereby is ordered to be paid by the Treasurer upon presentation of satisfactory vouchers therefor.

The vote on the resolution was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Grosvenor, and Shearer.

Nays.—None.

Regent Cutcheon, chairman of the Committee on the Department of Literature, Science, and the Arts, read the following communication :

To the Honorable, the Board of Regents :

GENTLEMEN,—By direction of the Faculty of the Department of Literature, Science, and the Arts, I have the honor to report that the following persons have been recommended to your Honorable Body for the degrees indicated, viz :

BACHELOR OF LETTERS.

Franklin Corydon Bailey,
Junius Emery Beal,
Roger William Cooley,
Charles Albert Crampton,

Herbert Augustus Hodge,
William Leonard Loveland,
James Hill Norton,
Frances Adell Stebbins.

BACHELOR OF SCIENCE.

Walter Seymour Brown,
William Lawrence Clements,
Charles Lewis Coffin,
Edwin Locke Cole,

Malcolm Woodworth Edgar,
Mary Hegeler,
William Hunter McEwan,
Samuel C. Weiskopf,

Harold Beckwith Wilson.

BACHELOR OF PHILOSOPHY.

Carrie J. Barker,
William Byron Cady,
Clarence Herbert Childs,
Eliza Darling,
Frank William Davenport,
John P. Delphely,
Marcia Gilmore,
Robert Toms Gray,
Mary Lucy Harding,

Laura Hills,
Louis Howard Hyde,
Henry Symes Mahon,
William L'Estrange Mahon,
William Elmore Martin,
William James Miller,
Mary Lovicy Miner,
Jacob Ellsworth Reighard,
Robert Green West,

Frederick William Whiting.

BACHELOR OF ARTS.

Julian William Baird,	Frank Bruce Leland,
Frank Elisha Baker,	John Jacob Lentz,
Charles William Belser,	Andrew C. McLaughlin,
John W. Bennett,	William Hosmer Mitchell,
Fred Betts,	John J. A. Murphey,
Benjamin Pitcher Brodie,	Annie Adair Ockford,
Will Edgar Chandler,	Henry Sherring Pratt,
Fred G. Coldren,	Fred Austin Robinson,
Charles Henry Cole,	Edward Adolphus Rosenthal,
Sumner Collins,	Thornton William Sargent,
George Oliver Curme,	Harry Gray Sherrard,
Mittie May Curtis,	Hinton Ellsworth Spalding,
Charles Howard Durham,	Henry Hall Spencer,
James Frederic Gallaher,	George Walter Staple,
William Galpin,	William Streeter,
Arthur Mills Gelston,	Jennie Sweetzer,
William Herbert Graham,	Charles Watson Tinsman,
John Henry Grant,	Rufus Waples, Jr.,
James Bryan Herrick,	Francis Day Weeks,
Francis Lodowick York.	

MASTER OF LETTERS.

Edgar John Adams.

MASTER OF SCIENCE.

Gabriel Arskott Jacobs, B. S., Guilford L. Spencer, B. S.,
Jean Augustus Wetmore, B. S.

MASTER OF PHILOSOPHY.

Douglas Houghton Campbell.

MASTER OF ARTS.

Charles E. Lowrey, A. B., Gauin E. Swarthout, A. B.,
William J. McMurtry, A. B., Geordie Z. Whitney, A. B.

DOCTOR OF PHILOSOPHY.

David Houston Taylor, A. M., Lucius Lincoln Van Slyke, A. M.

Respectfully submitted.

P. R. B. DE PONT,

Secretary of the Faculty.

The following resolution, submitted by Regent Cutch-
eon, was adopted :

Resolved, That the several degrees as indicated in the foregoing communication from the Faculty of the Department of Literature, Science, and the Arts be conferred upon the persons therein named, under the head of the degrees named, respectively, except in the case of Geordie Z. Whitney, which shall be referred to the Committee on the Department of Literature, Science, and the Arts.

Regent Grosvenor stated that a communication from Dr. J. Taft had reached his hands, and in the absence of the other members of the Committee on the College of Dental Surgery he suggested that the paper be referred to that committee for future action, which was agreed to.

The following preamble and resolutions were presented by Regent Cutcheon, and were unanimously adopted :

WHEREAS, It has been communicated to the Board that E. C. Hegeler, of La Salle, Ill., has expressed his purpose to donate to the University a goniometer, to be used in connection with instruction in Crystallography and Mineralogy, and has placed in the hands of Professor W. H. Pettee the funds for its purchase,

Resolved, That this Board accept said donation, and express to Mr. Hegeler its thanks for the same.

Resolved, That Professor W. H. Pettee be duly authorized to order said instrument in the name of the University, and arrange for its forwarding from Germany in such manner as shall be most expedient.

The following communication was read by Regent Grosvenor :

UNIVERSITY OF MICHIGAN,
HOMŒOPATHIC MEDICAL COLLEGE, }
Ann Arbor, June 26, 1882.

To the Honorable, the Board of Regents :

GENTLEMEN,—The Faculty and examiners of the Homœopathic Medical College respectfully report the following named persons as having complied with the requirements of the University, and beg to recommend them to your honorable Board for the degree of Doctor of Medicine :

Addison Lee Ambrose,
 Charles H. Brucker,
 Harvey L. Clark,
 Evelyn Augusta Churchill,
 Albert J. Dolan,
 William H. Davis,
 Benedict Einarson,

Olive Lucy Eddy,
 Walter Ingersoll Howard,
 John Hunter,
 Thomas Harris Turner,
 William E. Vanande,
 James W. Vidal,
 Jane Ann Walker,

Charles G. Wilson.

Respectfully submitted,

T. P. WILSON, Dean.

Regent Grosvenor presented the following resolution, which was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the communication from the Dean of the Homœopathic Medical College, in accordance with the recommendation of the Faculty of said College.

By unanimous request of the Board, Dr. A. Winchell, chairman of the special committee appointed at the last meeting of the Board, read the following report :

REPORT ON THE USE OF MICROSCOPES IN THE UNIVERSITY.

To the Honorable, the Board of Regents :

The special committee appointed by your honorable body at the meeting in May, "to take into consideration the relation of instruction in microscopy to the various departments of the University," and to report at the June meeting some "systematic plan for such instruction," embodying recommendations touching the question of fees for the use of microscopes, "and other matters pertaining to such instruction," beg leave to present the following report.

It is not necessary to conceal the fact that we have found the duties imposed upon us, as exacting and delicate as they are honorable and responsible. We have discovered complications and conflicts which at first seemed hardly reconcilable with an economical, efficient, and mutually satisfactory scheme of simplification. We are happy to state, however, that we have finally agreed upon a plan of organization of microscopical work in the University which seems to fulfill the most essential re-

quirements, and secures, so far as we are informed, the approval of all who are immediately concerned.

Few among us were aware of the magnitude to which the microscopical work in the University has grown. The modern methods of research in all the physical and biological sciences have involved more and more an appeal to the microscope to resolve for us the last problems in the sciences of matter and of life. It may be set down to the credit of the teachers of science in the University, and thus to the credit of the University, that we have not been left behind in the adoption of the improved methods of research. Undoubtedly there may still be those outside the ranks of scientific investigators and teachers, who only know the microscope as a toy which excites wonder by its revelation of the hairs on a fly's leg or the animalcules in a drop of stagnant water. But such inadequate conceptions must exert no influence in prescribing the limitations to be set to the researches of a professor in the University.

The committee have held seven formal meetings, and have had numerous individual interviews with each other and with those interested in the use of microscopes. They have had a separate and special consultation with each instructor having microscopes in charge, and have obtained written statements embodying desirable statistics, and the views of the several instructors respecting the proper demands of their respective chairs, and the most practicable method of uniting all the operations and all the interests in a single scheme. We have been met by a spirit of accommodation and even of self-sacrifice which deserves the expression of our thanks.

We find a total of 104 microscopes belonging to the University and employed in different branches of instruction. These are distributed among makers as follows :

Bausch and Lomb.....	61
Zentmeyer.....	19
Miller.....	12
Tolles.....	2
Crouch.....	2
Gundlach.....	2
Beck.....	2
Wale.....	1
Powell and Leland.....	1
Grunow, W. & J.....	1
Grunow, J. (Inverted microscope).....	1
Total.....	104

The total cost of these microscopes and the accessories used with them is about \$5,252. Omitting the first-class Grunow microscope purchased in 1856 for \$500, including a complete outfit of accessories, and an old Powell and Leland valued at \$150, and also an old inverted microscope set down at \$50, the purchases made in recent times, that is, since 1872, amount to about \$4,568. The present value of all these instruments and accessories may be put at \$4,618. The deterioration of microscopes and their accessories, when properly used and protected, is not rapid, except when the brass-work is unavoidably exposed to corrosive fumes, as in the investigations in a chemical laboratory. It is also true that observations in connection with chemical work involve a peculiar danger of the spilling of corrosive liquids on the stage or other parts of the microscope, and a heedless manipulator will increase the damage by neglecting to remove such liquids. Some risks are always incurred in the use of microscopes by novices, and at times the destruction from this cause is serious. Charges, however, have been made by the University for the regular use of microscopes by students as shown below :

In the histological laboratory, one dollar a student has been charged, making an aggregate tax for two years, of \$573. (See appended tables.) Dr. Stowell states that the microscopes on which this tax has been raised did not cost over \$1,000, and that the expense for reagents has not exceeded \$173; so that at \$1.00 a student, the microscopes have brought a net revenue of \$200 a year, or 20 per cent. on the investment. If, however, as your committee thinks must be the case, students have used the 19 Bausch and Lomb instruments, costing \$1,270, the net revenue is 15 $\frac{3}{4}$ per cent. per annum.

In the laboratory for vegetable histology, according to the statement of Acting Professor Spalding, the microscopes have done a service which averages five years for each, have cost \$40.15 each, and have earned each, at \$2.00 a student, \$18.18, which is 45 per cent. of the cost in 5 years, or 9 per cent. per annum.

As a microscope with fair usage will last for twenty years, it appears that the University, when receiving a fee of one or two dollars a student, is more than reimbursed for the expenditure—though this estimate, it should perhaps be said, does not embrace the larger expenditure for rooms, furniture, and warming, incidental to the use of microscopes. So far as objectives, eye-pieces, and other optical accessories are concerned, due care will

preserve them for 50 years, except when acrid fumes are unavoidable. The friction to which the microscopic stand is subject creates a liability to more rapid deterioration; but this can be prevented by careful attention to lubrication. Your committee are convinced from observation and general report, that most of the deterioration of microscopes results from unskilfulness and carelessness of users; and they suggest the exercise of reserve in entrusting these delicate instruments to the manipulation of inexperienced hands.

Your committee have considered the practicability of concentrating into one central laboratory all the microscopic instruction and investigation undertaken in the University. A moment's consideration, however, suffices to show that this cannot be done in an absolute sense; though we shall recommend an approximation to it. There is a large demand for the use of microscopes in immediate connection with the materials to be investigated, and which are and must remain somewhat scattered. The microscopes in the chemical laboratory, for instance, are brought into requisition in connection with the reactions of manipulatory chemistry, and often in the progress of a manipulation. The instruments must be momentarily accessible to the room for chemical operations. In botany and zoölogy the conduct of instruction in certain courses, which are generally given to small classes, must rely on the use of the microscope in immediate connection with the instruction. Such are courses in the fructification of *algæ*, in the forms and structures of diatoms, in the forms and structures of *infusoria*, and in the development of the embryo. Entirely similar are the requirements in palæontological courses, involving the study of the minute structures of the shells of fossil brachiopods, or of the coral skeletons of polyps. The same must be said in courses requiring the study of the optical characters of minerals. Moreover all the advanced courses in the subjects consist of researches through a wide range of specimens belonging to a given class, and which must be obtained from the museum collections. Finally, the methods of preparing many of these specimens are quite unlike those employed in the simpler and more usual line of research, so that some special appliances have to be provided which it would be a useless expenditure to provide for ordinary microscopical work.

The following are the branches of science in which microscopical work is at present carried on in the University :

Human Histology,	Med., Dent., Lit.,	Dr. Stowell,
Comparative Histology,	Zoölogy,	Drs. Stowell and Steere.

Vegetable Histology,	Pharm., Lit.,	Mrs. Stowell.
Botanical Research,	Botany,	Act. Prof. Spalding.
Zoölogical Research,	Zoölogy,	Dr. Steere.
Palæontological Research,	Palæontology,	Dr. Winchell.
Pathological Anatomy,	Medical Dept.,	Dr. Herdman.
Physiological and	} { Med , Pharm.,	} Dr. Vaughan.
Analytical Chemistry,		
	} { Dent., Lit.,	

As a rule, every student entering upon the use of the microscope in any one of these branches is under the necessity of acquiring in the University the skill requisite for successful manipulation. Manifestly, therefore, some advantage would be gained by sending students first to a central school of microscopic manipulation. Here they might be at first restricted to the use of cheap instruments, and thus, perhaps, some costly accidents would be avoided.

But students learning to use the microscope must employ some suitable objects for examination. These are preferably the ordinary tissues of plants and animals. The study of the microscope involves, therefore, the study of general histology. By the time adequate expertness has been acquired in the use of the instrument and its accessories, the student has made such progress in either Vegetable or Animal Histology that the subject has been pursued to all the length required by the University courses, or at least to such length that good economy requires the completion of the study in the school of microscopy.

Now, in this view, the school of microscopy would provide all the instruction needed in Human Histology, Comparative Histology, and Vegetable Histology.

Next, it is ascertained that the same school could similarly furnish nearly all the instruction needed in the College of Dentistry, and in Pathological Anatomy.

All that remains of the microscopical work first enumerated is that in Physiological and Analytical Chemistry, and the researches in Botany, Zoölogy, and Palæontology. But to these ought to be added Mineralogy. The microscopical work in Physiology and Analytical Chemistry must remain, so far as your committee can learn, very nearly as it is. Each of the other four subjects named will need a certain number of microscopes for independent use. We are informed also, by the Assistant Professor of Pathological Anatomy, that while the great body of his students could obtain the requisite instruction in a preparatory school of the microscope, there are always a few

who desire to do special and more advanced work ; and for their use a few instruments ought to be under his own control.

Your committee are therefore prepared to recommend as the most practicable, efficient, and economical expedient, in the present condition of microscopical work, the organization of a central LABORATORY FOR MICROSCOPY AND GENERAL HISTOLOGY.

Instruction should be given in this Laboratory in the following subjects :

1. Microscopical technics, or the science and art of microscopy, comprising:
 - (a) The theory and construction of the instrument and its various accessories ;
 - (b) The methods of determining magnifications ;
 - (c) The methods of microscopic drawing, microscopic photography, and microscopic projections ;
 - (d) The preparation of objects of various classes.
2. Human Histology.
3. Comparative Histology.
4. Vegetable Histology.
5. Dental Histology.
6. Pathological Anatomy.
7. Completion of microscopic study in such other subjects as may be desired by professors in charge.

The subject of Human Histology belongs to the medical schools. Comparative Histology is embraced in the chair of Zoology, and it is probable that the course required of beginners in the use of the microscope, if directed to the study of animal tissues, would complete all the Comparative Histology suited to elementary courses in Zoölogy. There will always be a limited number, however, desiring to pursue more advanced courses in Comparative Histology and other zoölogical researches, who will need to be provided for by the Professor of Zoölogy. The Professor, however, in writing, expresses his willingness to require a course in microscopical technics and Animal Histology as prerequisite to these advanced courses.

The subject of Vegetable Histology has heretofore been embraced in the Chair of Botany, but a large part of the instruction is given under the auspices of the School of Pharmacy. Your Committee recommend, therefore, for this and other reasons, that "Vegetable Histology" be detached from the Chair of Botany, so that all students in this subject, from whatever Department or School, shall receive their instruction in it from the instructors in the Microscopical Laboratory. In this recom-

mentation your Committee have the full written concurrence of the Acting Professor of Botany. The latter, however, reserves all instruction of a biological nature, such as the life-histories of plants, much of which involves research in minute forms and structures. He expresses his willingness, under the plan here proposed, to require all his advanced students to take a preliminary course in Vegetable Histology and the use of the microscope.

The subject of Dental Histology is under the auspices of the College of Dental Surgery, and the Faculty of this College, your Committee are informed, will be pleased to have their microscopical instruction given in the central Microscopical Laboratory.

Pathological Anatomy is under the auspices of the College of Medicine and Surgery; but the Assistant Professor informs us in writing that the demands of elementary instruction will be answered by a central Microscopical Laboratory.

It is the belief of your committee that professors in charge of special advanced instruction in some of the branches of science, may sometimes find it convenient to remand to the Microscopical Laboratory some of that grade and kind of instruction which, ordinarily, professors of these subjects would find it desirable to retain under their personal direction.

The "Laboratory for Microscopy and General Histology" should be specially constructed with a view to the proper admission of light. There ought to be separate apartments for the different classes of work, and supplied with separate sets of instruments, so that studies might be pursued simultaneously by different classes of students. For the present, so far as your committee can discern, different rooms must be located upon different parts of the grounds; but the laboratory will still be organically one. Moreover, Acting Professor Spalding desires to retain as a Botanical Laboratory, the room hitherto used by Mrs. Stowell. Should this be thought immediately advisable, it would not be impracticable that the same room should constitute an apartment of the Microscopical Laboratory during the forenoon, and be the Botanical Laboratory during the afternoon, though the use of the same microscopes, if by any means possible, ought to be avoided.

This laboratory should receive: *1st*, The microscopes and apparatus heretofore used in the Laboratory of Histology and

Microscopy under the direction of Dr. Stowell; *2d*, The microscopes and accessories and other appurtenances heretofore used by Mrs. Stowell, in giving instruction in Microscopical Botany, so-called; *3d*, Such other microscopes and accessories as may become necessary in carrying the present plan into effect. In this connection it may be stated that six of the oldest microscopes heretofore used by Mrs. Stowell require new stands and eye-pieces. These will involve an expense of \$25 each; though the old stands and eye-pieces may be made to realize something.

Your committee recommend, *1st*, That a uniform charge at the rate of three dollars a semester be imposed on each student taking a first course either in the Microscopical Laboratory or other laboratories in which the use of the microscope is regular and continuous. *2d*, That a fee of one dollar and a half be collected of each student in the Chemical Laboratory, where two students have simultaneously the use of the same microscope. *3d*, That for an advanced course the regular charge be at the rate of five dollars a semester. *4th*, That in all cases the student be required to supply himself with the requisite glass slides and thin covers; and *5th*, That every student be held strictly responsible for extraordinary damage or deterioration resulting to instruments or apparatus while in use by him. It is *not* recommended that any fee be charged when the use of the microscope is casual and occasional.

Your committee further recommend that Dr. Charles H. Stowell be appointed *Assistant Professor of Histology and Microscopy* and *Director of the Microscopical Laboratory*. They also recommend that Mrs. Louise Reed Stowell be appointed *Assistant Professor of Vegetable Histology and Microscopy*.

Dr. Stowell will thus sustain functional relations to the Medical, Dental, and Academic Faculties; and Mrs. Stowell to the Academic and Pharmaceutical Faculties.

Under the plan here proposed, the instruction of the students in Dentistry and Pathological Anatomy will augment considerably the demands on the Microscopical Laboratory, and it will become imperatively necessary to employ an assistant at an expense of about \$500. We have information that one of the professors in the Department of Medicine and Surgery is willing to relinquish his assistant, now paid \$200, for the purpose of facilitating the plan here recommended. Such assistant for the in-

creased compensation, would serve in the Microscopical Laboratory, and in addition, would render the professor referred to, all assistance essential to him.

Should the "Laboratory for Microscopy and General Histology" be organized as above recommended, the microscopes belonging to the University, and not included in the outfit for this laboratory, as also the total number desired by the several professors in charge, would be distributed as shown below :

	Provided.	Wanted.
Physiological and Analytical Chemistry-----	41	41
Botanical Laboratory -----	0	15
Zoölogical Laboratory-----	4	13
Palæontological Laboratory-----	2	2
Mineralogical Laboratory -----	0	1
Pathological Laboratory-----	0	4

It thus appears that the several laboratories ask for an aggregate increase of 29 instruments, which would cost about \$1,100. Your committee do not deem it necessary to make any recommendation on this point. They think it proper, however, to state their conviction, that the chairs making the largest requisitions would be content to begin with small outfits; and to direct attention to the special claim of a chair like that of Mineralogy, which at present is not provided with a single microscope, and would not be able hereafter to avail itself of the Microscopical Laboratory. The cost of a microscope suited to the modern methods of mineralogical research would be about \$125.

The scheme thus set forth is not one which, in its completeness, reduces the actual expenditures on account of microscopical work. If it possesses any merits as an economical plan, they consist in providing for increased revenues, and in forestalling impending demands for largely increased expenditures, which were about to be received from the College of Dental Surgery and from the chairs of Pathological Anatomy and Zoölogy. In fact, almost the only additional expenditure involved in the present plan arises from the effort to dispose of these anticipated demands, and from the cost of some repairs needed under any organization of microscopical work.

Should the recommendations of this report be adopted by the Board, they would involve action upon the following points :

1. The establishment, by simple resolution, of a "Laboratory for Microscopy and General Histology."

2. The appointment of Dr. Charles H. Stowell as "Assistant Professor of Histology and Microscopy and Director of the Microscopical Laboratory."

3. The appointment of Mrs. Louisa Reed Stowell as "Assistant Professor of Vegetable Histology and Microscopy."

4. The appointment of an "Assistant in the Laboratory for Microscopy and General Histology,"—an arrangement being practicable as suggested.

5. The adoption of a resolution fixing the fees to be collected for the use of microscopes, and defining the responsibility of students for extraordinary damages.

6. Such appropriations as may be involved in the foregoing appointments, and also an appropriation of \$150 for new stands and eye-pieces for six instruments in the Microscopical Laboratory.—Appropriations for the following objects the Committee leave without recommendations, in the light of statements previously made :

Mineralogical Laboratory	-----	1 microscope,	\$125
Pathological	" -----	4 microscopes,	140
Zoölogical	" -----	9 "	315
Botanical	" -----	15 "	525
		-----	-----
Total	-----	29	\$1105

7. The designation of separate apartments for the working room for Vegetable Histology and for the Botanical Laboratory.

8. Arrangements for the construction of a central Microscopical Laboratory building at some time in the future.

Respectfully submitted.

ALEXANDER WINCHELL,
ALBERT B. PRESCOTT,
M. W. HARRINGTON.

University of Michigan, June 27, 1882.

APPENDED TABLES

GIVING SOME STATISTICAL DETAILS.

I. TABULAR EXHIBIT OF MICROSCOPES USED IN THE UNIVERSITY.

WHOSE CUSTODY	NO.	MAKER.	DATE OF PURCHASE.	COST.	AGGREGATE COST.	PRES-ENT VALUE.	
<i>Mrs. Stowell.</i>	2	Tolles.	1872	\$50	\$100		
	12	Miller.	1875	35	420		
	2	Crouch.	1876	35	70		
	3	Zentmeyer.	1877	35	105		
	13	Bausch & Lomb.	1879	45	385		
	1	Gundlach.	1881	75	75		
Totals---	33				1355		
<i>Dr. Stowell.</i>	1	Grunow.	1856	\$500	\$ 500	\$250	
	15	Bausch & Lomb.	1877	70	1050		
		Physician's.	1879	55	220		
	4	do do	1881	48	48		
	2	Beck.	20 or 25 yrs ago		150 ?	150	
		Economic.			300	300	
	1	Powell & Leland.					
		{ Extra object-ives, 1-6, 1-12, 1-18, 1-50.					
Totals---	23				\$2268		
<i>Dr. Vaughan.</i>	6	Zentmeyer.	1878	\$40	\$200		
		Histologicol.	1882	35	350		
	10	do do	1881	27	216		
	8	Bausch & Lomb.	1879	30	510		
	17	Bausch & Lomb.	1861 ?				
	1	Grunow.					
		"Inverted."					
Totals---	42			32.10	\$1276		Need repairs costing \$2 to \$3 each. } Need repairs costing \$2 to \$3 each. } Not in as good condition as the above; 4½ years in use.
<i>Dr. Steere.</i>	3	Bausch & Lomb.		\$30	\$ 90	\$ 90	
		Research.				45	
	1	Bausch & Lomb.		45	45	17	
		Physician's.					
		Accessories.			17		
Totals---	4				\$152	\$152	
<i>Dr. Winchell.</i>	1	Wale.	1880	\$25	\$ 25	\$ 25	
	1	Gundlach.	1880	83	83	83	
		Accessories.	1880		25	25	
Totals---	2				\$133	\$133	

II. EARNINGS OF SOME MICROSCOPES.

IN CHARGE	NUMBER OF STUDENTS.			TOTAL FEES.	COST OF MATERIAL, 1 YEAR.	NET RECEIPTS PER ANNUM.
	Departments.	1880-1.	1881-2.			
<i>Dr. Stowell.</i>	Medical	200	200	\$400	--	--
	Dental	40	44	84	--	--
	Literature	56	24	80	--	--
	Pharmacy	--	8	8	--	--
	Total	296	276	572	\$86 50	\$200
<i>Mrs. Stowell, Prof. Spalding.</i>	Vegetable Histology	69	71	\$280	----	----
	Botany	3	2	8	----	----
	Total	72	73	\$288	\$63 33	\$80 67

On motion of Regent Cutcheon, the report just read was referred to the Executive Committee and the Committee on Finance, jointly.

Regent Walker submitted the following resolution :

Resolved, That the thanks of this Board be and are hereby tendered Dr. Winchell and the other members of the committee for their very interesting and exhaustive report.

The resolution was unanimously adopted.

A communication from the Dean of the Department of Medicine and Surgery was received, and on motion it was referred to the Committee on the Medical Department.

The annual report from the Department of Medicine and Surgery was read by the Dean of that Faculty, and is as follows :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF MEDICINE AND SURGERY, }
Ann Arbor June 27, 1882.

To the Honorable, the Board of Regents :

GENTLEMEN,—In presenting the Annual Report of the Department of Medicine and Surgery, I have the satisfaction of stating that another year of prosperity and success has attended

our labors. The extended course of three years of nine months each is now thoroughly inaugurated. A very large proportion of the present candidates for graduation have been with us three years ; have devoted their first year to the elementary branches of Anatomy, Physiology, Chemistry, and *Materia Medica*, with practical work in the various laboratories ; the second year they have reviewed these studies by again listening to lectures upon them, and have passed their examination by the State Board of Examiners, as well as by the members of the Faculty, touching these subjects, and completed their work in the laboratories. During this second year they have also attended the lectures on the practical branches of Practice of Medicine, Surgery, Obstetrics, and Ophthalmology, thus getting a general view of the whole field of medical science. The third year they have devoted themselves exclusively to the advanced practical branches, attending the numerous clinics, keeping records of cases, assisting in the care and watching the progress of the numerous interesting diseases in the Hospital, and thus preparing themselves for the practice of their profession.

During their course, besides attending the descriptions and demonstrations in the lecture-room, they have had thorough instruction in practical anatomy in the dissecting-room, having themselves worked out every part of the human body ; have had special courses in Surgical Anatomy and in Pathological Anatomy ; have performed surgical operations on the cadaver ; have been well instructed in the use and become familiar with the revelations of the microscope, especially as applied to medicine ; have had extended work in the Chemical Laboratory, analyzing numerous substances and witnessing the reaction of agents ; have had practical work in Medical Chemistry, examining the secretions of the body, healthy and morbid, furnished by patients in the Hospital, and by others ; have had a course in Botany ; have had instruction in the application of electricity ; in the use of the sphygmograph, the ophthalmoscope, and the laryngoscope, and, in short, have had all the subjects of a thorough medical education presented by those who have become experts in the various branches.

The effects of this extended and thorough course have been manifested in the medical scholarship of the class now presented to you for the degree of Doctor of Medicine. Although our standard of qualifications has been constantly elevated, no class has hitherto received so high an aggregate vote as the present,

and no class, we believe, has here, or elsewhere in the country, been more worthy of the honor they are about to receive. Even stronger language than this would be justified, did we choose to use it. The superiority claimed is for the system rather than for those concerned in carrying it out.

The work in the lecture-rooms by the six full professors in the Medical Faculty has been carried on in the usual manner, and requires no special notice.

The work in the Hospital and clinics has largely increased. Over thirteen hundred different persons have gone upon the record as patients, and although many of them have had more than one disease, and come under the care of more than one member of the Faculty, or have had more than one attack, they have been counted but once. Many, for instance, presenting themselves for diseases of the eye or some surgical affection, have had internal diseases requiring the attention of those having the care of that department, but the cases have been recorded as belonging in the department to which they first applied, and although having all the interest of new medical cases, they are mentioned in the report but once.

Arranged according to the department in which they have been recorded, there have been 526 cases of diseases of the eye and ear, 394 surgical cases, 328 medical cases, and 73 cases of diseases peculiar to women and children. The greater part of these have come from a distance, very many of them requiring special methods of investigation and treatment. Important operations, or unusual appliances, have been in very great variety, and have been of much more than common interest.

For a more full account of the Hospital work, reference is made to the report of the House Physician and Surgeon, which is submitted.

Not to dwell further upon the work of the full members of the Faculty, it seems desirable to call the attention of your Honorable Body to the work of professors in other departments done for our class, the work of assistant professors and lecturers, and of the assistants to the different professors.

Professor Winchell, by the invitation of our Faculty, has given a short but very interesting and profitable course on Botany, which has been attended more particularly by our first year students. The Faculty wish to express their obligation to Professor Winchell for this gratuitous work.

Professor Prescott, though professor in and Dean of another Department, has given a course of lectures on Organic Chemistry which has been of much interest and value.

Dr. Sewall has occupied the last semester with a course of lectures and instruction on Physiology, of which an account will be given in a separate report, concerning which recommendations will be offered.

Assistant Professor Herdman has given a course of instruction on Surgical and another on Pathological Anatomy, in addition to his duties as Demonstrator. A more full report made by him is transmitted.

Assistant Professor Vaughan, in addition to his work in the Chemical Laboratory, has given a short course of instruction in Diseases of the Urinary Organs, and another in Diseases of the Throat, and the Use of the Laryngoscope. He has also, as in former years, given a portion of the course on *Materia Medica*. Dr. Vaughan reports that during the entire year he has had four hours a day in the laboratory, and on an average has given five lectures a week. During the first semester, however, a part of the lectures were given in the School of Political Science.

Assistant Professor Stowell has given a course of Histological lectures, and given instruction to a large number of our students in the practical use of the microscope. Reference is made to his report, which is transmitted.

The Assistants to the several Professors have also performed important services to the students and the University, for which, as they have received but small pecuniary they should have proper verbal and recorded acknowledgements.

Dr. Hendricks, who has been in the service of the Anatomical Department for several years, has rendered during the last term most efficient service to the Professor of Anatomy and also in building up the Medical Museum, of which he is Curator. His report of his work is transmitted, and I am instructed by a unanimous vote of the Faculty, and requested by a letter from Professor Ford, to present a recommendation respecting him, to which your attention will be more particularly called.

The Assistant to the Professor of Pathology and Practice of Medicine and Clinical Medicine—Dr. Dight—has rendered important service. According to his report, made to the Dean, he has met the senior class in lectures three times a week during the term, and in what are called “Quizzes” has reviewed with them the lectures that have been given by the Professors he as-

sists. He has attended all the lectures of the Professors in order to examine upon the subjects. He has also in sections of five or six assisted in giving instruction in the use of the Laryngoscope. He has also attended all the medical clinics, continuing from one to two hours each, three times a week, and has spent, as he reports, from one and a half to two hours daily, on an average, or twelve and a quarter hours a week, in clinical work in the amphitheatre and the hospital. All this is exclusive of his very efficient work as secretary of the Faculty. The recording of all the names of students, attending to their seating, recording their absences, giving them certificates of attendance, notifying the Professors of Faculty meetings, conducting the correspondence, sending away from 4,000 to 5,000 Announcements, etc., requires an amount of labor which one cannot appreciate without witnessing it.

Dr. Kennan, Assistant to the Professor of Materia Medica and Ophthalmology, reports that during the first semester he held two recitations a week, with assigned lessons from a work on Materia Medica for the first year's students, and the same number for the second year's students during the second semester. He has also bestowed much labor in the Ophthalmic clinics and the hospital in attendance upon the patients. His work has been very efficiently performed.

Dr. Hall, Assistant to the Professor of Obstetrics, reports that he has given nine hours of labor a week at the hospital, three hours at the college in recitations with the senior class, and four in attendance upon the lectures of the Professors, making sixteen hours a week. His duties have been to assist at two clinics a week, and to visit the patients in the hospital under Professor Dunster's care, look to their condition, direct what may be necessary for the time, and report to the Professor.

The Assistant to the Professor of Surgery, Dr. Sullivan, as he reports, has attended the lectures on Surgery, three times a week, getting in readiness means of illustration, has attended often four clinics a week, meantime being required to continue after the clinic to look after the patient operated upon. During the first semester instruction was given by him once a week on Minor Surgery, bandaging, etc., and he has applied or aided in applying fifty-three plaster casts, for diseases of joints, club-foot, and disease of the spine, and three reviews were held each week for sections of the senior class. He says it would be impossible

to state the number of hours spent in the hospital wards; part of his time, however, he states, has been spent in this work as Assistant to the Chair of Surgery.

Dr. Joy, assistant to the professor of General Chemistry, has given 72 lessons in Electro-Therapeutics to sections of the class and a quiz once a week during the first semester, and cannot, therefore, state the amount of work done by him.

The labor of these assistants to the professors has been of very great service to the students and the college, without which the proper teaching of so large a number of students would have been impossible. In the course of my experience I have never known so large an amount of so skilled and useful labor performed for so little compensation. It is feared that we cannot long expect so much for so little. It is true that this, like all useful and skilful labor, has a reflex effect upon those performing it, especially if performed by the young, but other than this kind of compensation is generally found necessary.

In conclusion, the Faculty congratulate the University and the Regents upon the large number of students in attendance upon the department, and upon the results which have been accomplished.

Respectfully submitted,

A. B. PALMER, Dean.

On motion of Regent Walker, the papers accompanying the report just read were ordered to be placed on file.

Certain resolutions adopted by the Faculty of the Department of Medicine and Surgery, relative to the appointment of "medical examiners," and to other matters, were read by Dr. Palmer. On motion of Regent Grosvenor, the resolutions touching the affairs of the Medical Department were referred to the Committee on the Medical Department; and those relative to the expenditure of money were referred to the Committee on Finance and the Committee on Medical Department jointly.

Dr. Henry Sewall read a paper relative to the work which had been performed in the Department of Physiology, which had been under his charge during the second semester of the present academic year.

Regent Cutcheon moved the reference of the paper to the Committee on Finance and the Executive Committee jointly, which was agreed to.

Dr. Donald Maclean read his report on the clinical work performed in the hospital during the year just closed. On motion of Regent Grosvenor, the report was received and ordered printed in the minutes.

A Condensed Report to the Board of Regents of the Surgical Clinic of University Hospital for the Session 1881-2, by Donald Maclean, M. D., Professor of Surgery.

To the Honorable, the Board of Regents, of the University of Michigan :

GENTLEMEN: I have the honor herewith to present to you the annual report of work done by me in the Surgical department of the University Hospital.

It will be observed that the name, age, disease, treatment, and result of each case, together with the postoffice address is noted in full.

The accompanying volume (referring to clinical record of the hospital) contains a full history and description of each of these cases.

For this record my clinical clerk, Mr. E. A. Christian, deserves very great credit. A single glance at the case-book will suffice to give you some idea of the thoroughness, care, and neatness with which he has executed his task.

The following is a condensed summary of the report herewith submitted :

Four hundred surgical patients have passed through my hands during the season now closed. Of these a large proportion were presented to the class on several different occasions for the purpose of illustrating different forms or phases of their ailments, and to illustrate also the effects of treatment. The dressing and after-treatment of these patients has furnished the members of the graduating class with much valuable practice. I will not weary you with details of purely professional facts, but will merely mention a few of the more important diseases met with during the session :

- Different forms of abscess, including Lumbar Abscess.
- Caries of bones of foot requiring Syme's ankle-joint amputation.
- Caries of bones of wrist requiring amputation of forearm.
- Caries of sacrum.
- Caries of spine.
- Caries of sacro-iliac joint.
- Necrosis of humerus.
- “ “ jaw.
- “ “ radius.

Necrosis of scapula.

“ “ femur.
 “ “ thumb.
 “ “ tibia.
 “ “ fibula.
 “ “ foot.

Periostitis, many cases.

Depressed fracture of skull.

“ “ “ nose.

Separation of epiphysis of lower end of humerus.

Ancient colles fracture.

Fracture of ulna and radius.

Extra-capsular-fracture of femur.

Ununited fracture of the patella.

“ “ “ “ tibia and fibula.

Compound comminuted fracture of the femur, requiring primary amputation of thigh.

Compound comminuted fracture of the tibia and fibula, requiring amputation below knee-joint.

Ununited fracture of tibia.

Dislocation of shoulder-joint.

“ “ hip-joint.

“ “ knee-joint.

“ “ ankle-joint.

Contusions of shoulder, hip, and knee-joints.

Hip-joint diseases, many cases.

Internal derangement of knee-joint.

Synovitis of knee-joint.

Sprain of “ “

White swelling.

Ulceration of cartilages of knee-joint.

Bursa of forearm and hand.

Talipes of every form.

Wry neck.

Aneurism of common femoral artery requiring ligature of the external iliac artery.

Varicose veins.

Varicocele.

Foreign body in bladder.

“ “ “ hand, (piece of steel).

“ “ “ larynx.

Morbid growths, including:

tumors of the breast.

“ “ “ forehead (cystic).

“ “ “ neck.

“ “ “ parotid region.

Ovarian tumors.

Exostoses of the femur, tibia, and toe.

Epithelioma of the lip, cheek, forehead, hand, and tongue.

Fatty tumors of the neck, axilla, shoulder, side and thigh.

Lupus of the cheek, hand, eye, face, forehead, and nose.

Malignant tumors of base of brain, cheek, forehead, upper jaw,
 clavicle, perineum, and rectum.
 Osteo-sarcoma of upper jaw, requiring removal of jaw.
 " " " lower " " " "
 Spindle-cell sarcoma, of forehead.
 Scirrhus cancer of breast.
 Supra-orbital tumor.
 Uterine fibroid.
 Papillomata of lip, mouth, and neck.
 Prostatic tumors.
 Nævus of lip, cheek, and forehead.
 Suppurating corns.
 Goitre.
 Nasal polypi.
 Different forms of Eczema.
 Hare-lip.
 Cleft palate.
 Cicatricial contraction from burns.
 Imperforate arms.
 Enlarged glands.
 " prostate.
 Hypertrophy of tonsils.
 Anchylorisis of elbow-joint, requiring resection.
 Cystitis,
 Orchitis.
 Prostatitis.
 Fatty degeneration of testicle, requiring castration.
 Phymosis, requiring circumcision.
 Fissure in ano.
 Fistula in ano.
 Fistula in perineo.
 Spasm of sphincter ani.
 Hemorrhoids.
 Hydrocele.
 Paralysis from injury.
 Rachitis.
 Spinal curvature, lateral and antero-posterior.
 Sinus of serotum.
 " " neck.
 " " ischio-rectal region.
 " " lumbo-sacral region.
 Sciatica, requiring stretching of sciatic nerve.
 Stone in the bladder, requiring lithotomy.
 Stricture of œsophagus,
 " " urethra.
 Tonsillitis.
 Ulcers of every variety.
 Venereal diseases of every variety.
 Ingrowing toe-nails.
 Malformed and displaced teeth.
 Whitlow.
 Senile gangrene.

From this partial list it will appear that almost every department of surgery has been illustrated by characteristic cases. One hundred and fifty operations were performed by me before the class. One hundred of these were performed under anæsthetics, chloroform being the only anæsthetic employed. Four pounds of chloroform in all were used. The largest quantity given to any one patients was $\bar{3}ij$, and the smallest $\bar{3}ss$. The average quantity of each patient was $\bar{3}iv\frac{1}{2}$. No accident of any kind resulted from the use of this anæsthetic. The same statement may be made with regard to all preceding sessions. The great economy of chloroform used is due mainly to the peculiar apparatus and method of administration.

Of the four-hundred cases recorded this year the great majority, it will be seen, were dismissed, cured, or in progress of cure. A few were only relieved, a still smaller number were dismissed unbenefited or incurable, and six died. Of the latter every case was after operation for painful diseases, which must soon have terminated fatally under any circumstances, the operation affording the last forlorn hope of life.

When the critical and peculiar nature of almost every case sent to this clinic is considered, I am sure it will be conceded by every impartial judge of the subject that the results and statistics here presented are in all respects creditable to surgery and to this department of the University of Michigan.

The annual report of the House Surgeon and Resident Physician of the University Hospital, presented by Regent Grosvenor, was received, and is as follows.

UNIVERSITY OF MICHIGAN, }
June 27, 1882.

To the Honorable, the Board of Regents :

GENTLEMEN,—I have the honor to submit the following report :

During the past year, from October 1, 1881, up to and including June 24 last, thirteen hundred and twenty-one patients have registered and been treated at the clinics of the Department of Medicine and Surgery, this number not including one hundred and four patients who have returned within this time for treatment for the same or some other ailment.

Of this number eight hundred and twenty-three have remained in the hospital ; the remaining four hundred and ninety-eight, through choice or necessity, owing to want of room in the

hospital, have found accommodations outside. Besides this, many patients have been accompanied by their friends, to care for them during their sickness. The number extends into the hundreds, but no official record of them has been kept.

The patients have been classified as follows :

Diseases of the Eye and Ear.....	526
Surgical Cases.....	400
Medical Cases.....	328
Diseases peculiar to Women.....	73
Total.....	1327

A large number of patients have entered two or more of the clinics. In the above arrangement the patient has been put in that department in which he more particularly belongs.

They come from fifteen States, Ontario, and Manitoba, viz : From Ohio, 39 ; Indiana, 38 ; Ontario, 34 ; Illinois, 5 ; 3 each from Wisconsin, Kansas, and Iowa ; 2 each from Massachusetts, New York, and Pennsylvania, and 1 each from Colorado, Vermont, Nebraska, Missouri, Dakota, and Manitoba ; the remaining eleven hundred and eighty-four being from Michigan.

Three hundred and fifty-five important operations have been performed during the year, and anæsthetics have been administered in two hundred and thirty-nine cases.

One hundred and ninety-six of these operations have been on the eye, thirty-five being for the extraction of hard cataract, and all, with one exception, have been the means of restoring sight to the blind. Enucleations have been performed fifteen times, and operations for the relief of squint in forty-six cases.

In the surgical clinics, one hundred and forty-eight operations have been performed, many of them major operations and of very important character. Numerous casts, splints, extensions, and other apparatus have also been applied before the classes or in the wards of the hospital.

In the department of diseases peculiar to women, seventeen important operations have been performed, twelve resulting in perfect success, two greatly improved, and three failures.

In all, ten have died. Many have come too late to receive benefit, and have been immediately dismissed. Of the remainder very many have been cured, many have been benefited, and many more have received treatment, gone to their homes, and never reported.

During the year thirteen children have been received under Act No. 138, of May, 1881, providing for the treatment of de-

pendent and neglected children ; others have been refused admission, owing to want of proper accommodations ; and in this connection I deem it proper to state, that if this Act, one of the most charitable our Legislature in its wisdom has ever passed, providing for the medical care of the young at a time when disease most readily yields to treatment, is to be of any force, it is imperative that some proper provision be made for them outside the crowded wards of a general hospital.

The year has been one of prosperity to the University Hospital, due in a great measure to harmony among all and hard work by all. To Drs. Young and Turner, and to Mrs. De Motte and Mrs. Allerdice, much credit is due. They have discharged their duties faithfully towards the patients and the interests of the department. Great credit also is due the matrons, Mrs. Hurd and Mrs. Rosebrugh. Their care of the wards and University property entrusted to their keeping has never been equaled, their bill of fare has been all that could be desired, and in catering to the whims and appetites of the sick they have been very successful.

Nor would I forget the students of the graduating class. They have cheerfully done an immense amount of work in the care of the sick assigned them, both by day and night. Without their aid it would have been impossible to have gotten along.

The capacity of the hospital has been strained to the utmost. With the exception of a few days during the holidays, from the day of opening up to the time of closing, the wards have been overcrowded all the time. All available room has been occupied, and patients were often glad to sleep in cots, stretchers, operating tables, chairs, or on the floor, rather than be turned away. If this department of this great University is to be allowed to grow, as it must and will, more room will be required. The large number of outdoor patients, and the great increase in attendance upon the clinics over previous years, must suggest some of its possibilities.

We feel thankful to you for the many improvements you have given us during the past year ; but our needs are still many, and, in conclusion, I beg briefly to call your attention to a few most earnestly needed, asking them, not of or for ourselves, but in the name of sixteen hundred afflicted who will ask admittance and proper accommodations in the University Hospital next year.

The ventilation of the two main wards is very imperfect. The wards of a crowded hospital should above all things else be

thoroughly ventilated, and special attention is called to this matter.

Professor Dunster's room for gynæcological work, always too small, has been almost unfitted for his work by the building of the eye ward opposite his window, thereby obstructing the light and seriously interfering with his work. A larger and well lighted room is needed for this growing clinic.

I would also recommend that a proper room be fitted up for the dispensing of medicines; that a dispensing clerk be appointed from either the Medical or Pharmacy classes, at no salary, who will fill one or more regular hours a day dispensing medicines, dressings, etc. I urge this as a matter of economy, fully believing that the amount saved in a year will more than pay the necessary initiatory expense.

Further, I would recommend for your consideration the heating by steam of the older portion of the hospital, occupied by the Resident Physician, Matrons, and private rooms for very sick patients. In these rooms seven stoves are in use about seven months of the year. Their exchange for steam-pipes I would consider a matter of safety, cleanliness, and economy.

The accommodations of the ward water-closets should be increased, and some method adopted for their ventilation.

Some provision should be made for the increasing number of help employed in buildings connected with the hospital. At present they are obliged to occupy the private rooms and beds in the wards, to the detriment oftentimes of the sick. I would suggest the advisability of adding another story to the kitchen and dining-room, for their accommodation.

At present, in all the wards, only hard water can be obtained for the cleansing of wounds and toilet purposes. For many reasons this is not suitable. Cannot some means be employed by which the large quantity of rain water from our roofs might be utilized in the wards?

Respectfully submitted.

GEO. F. HEATH, M. D.,

House Surgeon and Res. Phys., University Hospital.

The following communication was read by Regent Grosvenor:

To the Honorable, the Board of Regents:

GENTLEMEN.—The following persons, having complied with all the requirements of the Department of Medicine and Sur-

gery, are hereby recommended to the Honorable Board of Regents for the degree of Doctor of Medicine:

Fanny Perkins Andrews,
 Thomas J. Andrews,
 William A. Aubrey,
 Charles Hudson Avery,
 William Henry Aylsworth,
 Orla Starr Bailey,
 Charles H. Baker,
 Eugene Baker,
 Elmer Irving Balcom,
 Sarah Collins Baldwin,
 Arthur David Bangham,
 Nellie J. Bell,
 Fred Darius Bickford,
 Benjamin D. Bond,
 Mary I. E. Brown,
 Henry Herbert Bucknum,
 William Joseph Byrnes,
 William Aulls Campbell,
 John Henry Carty,
 Herbert Elwood Cary,
 Edmund A. Christian,
 George Christie,
 Wright J. Chittock,
 George Henry Cleveland,
 James Blackmer Cole,
 Robert W. Colville,
 Arthur Winds Condict,
 Lewis Reeves Dawson,
 Albert Bela DeLiptay,
 Elias DeSpelder,
 Eber Heber Deyoe,
 Orin Jonathan Fay,
 John Leander Fierstone,
 William B. Finnegan,
 Benjamin Franklin Forrey,
 Fred W. Freeman,
 Eugene Cowles French,
 Harold Gifford,
 William Frederick Hake,
 Willis Elmer Hallowell,
 Willei Jeremiah Herrington,
 Dennie J. Higley,
 Matthew Stewart Hosmer,
 Alice Permella Howes,
 George Alvin Hughes,
 William Augustus Hunt,

Matthew Beveridge Hutton,
 Paul Christen Jensen,
 George Lawrence Jordan,
 Myatt Kyau,
 Oliver Hollinger Lau,
 James Franklin Lemon,
 Hugo Lupinski,
 Levi James Magee,
 Charles Henry McGorray,
 Orvil Owens McKee,
 Bunyan Anderson McLain,
 Stafford James Meek,
 Fanny Isham Messenger,
 Howard Davison Mills,
 Arthur Osborne,
 Robert Arnold Packwood,
 Margaret Emily Pagelson,
 Ella Martha Patton,
 Juliet E. Perkins,
 Richard Ralph Pettitt,
 Clara Elizabeth Pope,
 Samuel John Power,
 Albert Lycurgus Rhea,
 Albert James Rice,
 Flora Hubbard Ruch,
 John R. Russell,
 Charles Harvey Rodi,
 Alfred James Scott,
 Ford Wylis Seilars,
 Harry Sheldon Sevey,
 Frank Trester Smith,
 Arthur H. Southwick,
 Albert Lincoln Spanogle,
 John Augustus Stratton,
 Elihu Duane Tallman,
 William Wakefield,
 Willard Miles Weller,
 John Edmunds White,
 Stanley E. Woodruff,
 James Ney Wright, Jr.,
 William Thomas Wright,
 Frank Asbury Wygant,
 Lillian B. Yeomans,
 William Edward Young,
 Samuel Zimmerman.

A. B. PALMER, Dean.

The following resolution, submitted by Regent Grosvenor, was unanimously adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the foregoing communication, in accordance with the recommendation of the Faculty of Medicine and Surgery.

The following communication was read by Regent Cutcheon :

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, June 26, 1882. }

To the Honorable Board of Regents:

GENTLEMEN.—Since your last meeting the University has received from Mr. Fred G. Buckley, of Leadville, Colorado, a gift of mineral specimens illustrating the products of the mines of that vicinity. I take pleasure in calling your attention to this evidence of the interest felt by former students in the welfare of the University.

Very respectfully yours,

W. H. PETTEE.

Regent Cutcheon submitted the following resolution, which was adopted unanimously :

Resolved, That the thanks of this Board be, and are hereby tendered to Fred. G. Buckley, of Leadville, Colorado, for his gift of mineralogical specimens for the cabinet of mineralogy.

A communication from Professor J. B. Steere was read by Regent Cutcheon, who submitted the following resolution, which was adopted :

Resolved, That the request of Professor Steere for the use of one microscope and a small quantity of skins and skeletons of birds and mammals, not exceeding in value \$200, at the summer school at Petoskey, be granted upon the condition that Professor Steere becomes personally responsible for the same, and presents to the Board at the October meeting the evidence that they have been returned in as good condition as when taken, and that such articles only be taken as have been used for purpose of instruction in the class-room, and that he give a detailed receipt to the

Secretary therefor, and this action shall not be regarded as a precedent for the future.

Regent Grosvenor stated that the case of Frothingham vs. Joy was still pending, and, if possible, the matter should be further considered and finally disposed of. He would therefore move that the case be made the special order for 10 o'clock to-morrow morning. Agreed to.

The following resolution, submitted by Regent Cutcheon, was adopted :

Resolved, That the degree of Master of Arts be, and the same is hereby conferred upon Geordie Z. Whitney, A. B., a member of this University, and a graduate of the Department of Law, he having pursued post-graduate studies in the University, and sustained the usual examination.

On motion of Regent Walker, the board adjourned to 9 o'clock to-morrow (Wednesday) morning.

MORNING SESSION.

Wednesday, June 28, 1882.

The Board of Regents reassembled in the room of the President at 9 o'clock A. M.

Present—the President, Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

The following communication was read by Regent Shearer :

UNIVERSITY OF MICHIGAN,
SCHOOL OF PHARMACY, }
June 27, 1882.

To the Honorable, the Board of Regents :

GENTLEMEN,—The following named persons (forty in number) having completed all requirements for the degree of Pharmaceutical Chemist, in this Department of the University, are respectfully recommended to you for this degree :

Charles Gregor Allmendinger,
 John Henry Brockmeier,
 George Lincoln Carley,
 Graham Clarke,
 Charles Albert Crampton,
 Samuel Crombie,
 Harold Cunningham,
 George Edward Dean,
 John Julius Denison,
 Leroy Herbert Deyo,
 May Dilworth,
 Charles Wilcox Dodd,
 Louis Joseph Fasquelle,
 Maximilian Gessler,
 Louis Goecker,
 Lester Adoron Goodrich,
 Arthur Lawrence Greene,
 William Heim,
 John Hoehn,
 Thomas Hulburt Hubbard,

Alfred Arnold Jones,
 Reinhardt Josenhans,
 Ezra Joseph Kennedy,
 Charles Hamilton Longstaff,
 Edgar B. Longwell,
 Mary McNeil,
 Elmer Edson Meredith,
 John Eaton Morris,
 Franklin Rozell Oles,
 George Henry Moore Palmer,
 Clara Emma Pryer,
 Robert Burns Ransom,
 Orlin Mavor Rockwell,
 Theodore Royer, Jr.,
 Edwin Ira Stinson,
 Thomas Routh Thornburgh,
 Nicholas Van den Beldt,
 William Hallock White,
 Frank Wickwire,
 Otto George Zerse,

Respectfully submitted, by direction of the Faculty of the
 School of Pharmacy.

ALBERT B. PRESCOTT, Dean.

The following resolution, submitted by Regent
 Shearer, was adopted :

Resolved, That the degree of Pharmaceutical Chemist be
 and is hereby conferred upon the persons named in the above
 communication, in accordance with the recommendation of the
 Faculty of the School of Pharmacy.

Regent Grosvenor stated that the annual report on
 Ophthalmology and Otology, by Dr. G. E. Frothingham,
 had been received, and for the time he moved that the re-
 port be placed on file. He also said the report of the Ex-
 aminers for the Department of Medicine and Surgery had
 reached his hands. He suggested that it also be placed on
 file, which was agreed to.

The President announced that the time for the busi-
 ness that was made the special order on motion of Regent
 Walker, had now arrived. He stated the business to be
 the further consideration of the charges in the case of
 Frothingham vs. Joy, and if there were no objections the
 matter would be considered before the Board. No objec-

tions being made, the Board proceeded to the consideration of the special order of business, as announced by the President.

Regent Cutcheon moved that Dr. Joy be permitted to present briefly such additional evidence in the case as did not appear in his printed pamphlet. Permission was granted. Dr. Frothingham asked that the same privilege be accorded him. The privilege asked for was accorded.

The evidence in the case having been received, and the discussion being closed, the Board took a recess till 2 o'clock P. M.

AFTERNOON SESSION.

Wednesday, June 28, 1882.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—the President, Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Regent Walker submitted the following resolution, which was adopted :

Resolved, That it is the sense of this Board that the salary of each and every employé of the University is such as is expressed in the resolution making the appointment, and does not include any exemption from matriculation, annual, or other fees that might be due to the University from such employés as students in any department.

The following resolution, presented by Regent Walker, was adopted :

Resolved, That the proposition of the First National Bank of Ann Arbor, to act as depository of the University fund, paying to the University interest on the daily balances of the said funds, at the rate of four per cent. per annum, as per the letter of the said bank, of date of June 26, 1882, be accepted, and that the said bank is hereby designated as such depository.

Resolved, That the bond of the First National Bank for the custody of the funds of the University, as presented, be and is hereby accepted and approved, that a copy thereof be printed in the Minutes of the Board, and the bond be placed in the hands of the President for safe keeping.

The following is the bond referred to in the above resolution :

Know all men by these presents that the First National Bank of Ann Arbor, No. 2714, a corporation organized under the laws of the United States, located and doing business in the city of Ann Arbor, county of Washtenaw, and State of Michigan, as principal, and Philip Bach, J. W. Knight, J. M. Wheeler, Alpheus Felch, Wm. McCreery, Henry Cornwell, J. Austin Scott, and James Clements, as sureties, are firmly bound unto the Board of Regents of the University of Michigan and their successors, in the sum of fifty thousand dollars, lawful money, to be paid to the said Regents, and their successors, or their certain attorney or assigns, to which payment well and truly to be made we bind ourselves, our heirs, executors, and administrators firmly by these presents.

Sealed with our seals and dated the 26th day of June, 1882.

The condition of this obligation is such, that if the above bounden First National Bank of Ann Arbor, designated as the depository of the moneys of the said University of Michigan, shall on demand pay on checks or orders drawn upon the said Bank by the said Board of Regents or its Treasurer, and whenever so required, pay over all such moneys as shall be received by the said Bank belonging to the said University of Michigan, to said Regents and their successors, or to the proper officers, without delay, then the above obligation to be void, otherwise to be and remain in full force and virtue.

The First National Bank of Ann Arbor,

Sealed and delivered in presence of J. W. KNIGHT.

BY PHILIP BACH, PRESIDENT,	
" J. W. KNIGHT, CASHIER,	
PHILIP BACH,	L. S.
J. W. KNIGHT,	L. S.
J. M. WHEELER,	L. S.
ALPHEUS FELCH,	L. S.
CHAS. H. RICHMOND,	L. S.
WM. MCCREERY,	L. S.
HENRY CORNWELL,	L. S.
J. AUSTIN SCOTT,	L. S.
JAMES CLEMENTS,	L. S.

On motion of Regent Grosvenor, the Board went into executive session. At the close of the executive session, the business of an open session was resumed.

The following paper, read by Regent Cutcheon, was adopted :

To the Honorable Board of Regents:

GENTLEMEN.—Certain members of the Faculty of the Department of Medicine and Surgery having requested the Board in writing “that it be ascertained whether any one connected with the University is responsible for the unauthorized use of the statements of members of the Faculty, or for the contents or character of” a certain publication made by Wagner & Co., relating to the electrical belt or device invented by Dr. D. A. Joy, which publication is regarded as a violation of medical ethics, and charges having been formulated against Dr. D. A. Joy, as the party claimed to be responsible therefor, and evidence having been adduced both in support of and in denial of said charges, and argument had thereon, and the whole matter having been duly considered, the Board do find from the evidence before us, as follows, to wit :

1. That the Faculty of the Department of Medicine and Surgery are in no manner and to no extent responsible for the unethical advertisement of Dr. D. A. Joy’s electrical belt.

2. That Dr. Joy did not by his written contract with Wagner & Co., protect himself and his associates in the Faculty from the unprofessional and unethical use of their certificates, and thereby exposed himself and them to the liability of injury, through either the ignorance or unscrupulousness of his advertisers and contractors, and that thus the enemies of the department have taken occasion to make scandal.

But believing that Dr. Joy has in good faith discontinued the said business, and so far as he could control it, the advertisement thereof, and that he has not intentionally brought this scandal upon the medical Faculty, we do not find that he has been guilty of any conduct requiring dismissal from the University.

The report of the Homœopathic Medical College was read by Dr. T. P. Wilson, Dean, as follows :

Report of the Homœopathic Medical College.

UNIVERSITY OF MICHIGAN,
Ann Arbor, June 27, 1882. }

To the Honorable, the Board of Regents :

GENTLEMEN,—The Faculty and Board of Examiners have the honor to report the continued and satisfactory prosperity of this Department.

It is no small gratification to us to find, at the end of the seventh annual session, that in all respects we have made from the commencement until now steady and substantial gain. No other Department in this University in its earlier years enjoyed a greater relative prosperity than has this Department.

Under the liberal endowment given us by the Legislature, and under your protecting and fostering care, our success has met our most sanguine expectations.

The past session has demonstrated the wisdom of the extension of the curriculum adopted by your Honorable body. Our students have been immeasurably benefited by the additional advantages presented in the nine months' course, and we are pleased to know that our sister institutions throughout the country are seriously agitating the question of adopting our plan of instruction.

We beg to call your attention to the great increase of clinical work the past year.

Our Hospital during the greater part of the year was inadequate to hold all the cases that applied to us for relief. We have been obliged to secure private quarters for a large number of patients.

The conversion of our upper lecture room into a ward gave us needed relief, and we have in addition converted our faculty room into a private ward.

Besides the large increase of hospital patients, we have had our out-patients much increased, so that we have often found it difficult to treat all who came within the brief hours we have allotted to this work.

And here we desire to call the attention of your Honorable Board to a matter of supreme importance to our future plan of instruction.

It is the desire of this Faculty to make our clinical instruction of the highest possible value to our classes. Our curriculum is arranged to secure the attendance of Freshmen and Juniors

as well as Seniors during our clinical lectures, and we have prepared clinical record books in which students are to keep a careful record of the various cases brought before them.

Our plan, however, has measurably failed during the past year, on account of the arrangement of lectures in the Department of Medicine and Surgery, which required the attendance of our students there during our clinic hours.

This we have in vain sought to remedy by petition to the Faculty of the Department of Medicine and Surgery.

What we desire is that your Honorable Board shall direct that in the future arrangement of lectures all the classes in our Department shall be under our charge during every Wednesday and Saturday forenoon from 9 to 12 o'clock, and that at the same time they shall not suffer loss from non-attendance upon required lectures; in other words, that the lectures in the two Departments shall be so arranged that our plan of clinical education may be successfully carried out.

The chair of Diseases of Women and Children in our Department still remains vacant. We solicit your earnest attention again to this want, and beg you to secure for us from the Legislature the needed appropriation, that we may have it filled.

We respectfully present you the following reports from our hospital and general clinical work.

T. P. WILSON, Dean.

The following report from the Resident Physician and Surgeon of the Homœopathic Medical College Hospital was presented by Regent Grosvenor:

Report of Resident Physician and Surgeon Homœopathic Hospital.

UNIVERSITY OF MICHIGAN, }
DEPARTMENT OF HOMŒOPATHY, }
ANN ARBOR, MICH., June 27, 1882. }

To the Honorable Board of Regents:

The following report of the work of the Homœopathic Hospital is respectfully submitted:

The total number of patients received into the hospital during the year, is 181.

They have been classified as follows :

Surgical.....	89
Diseases of eye and ear.....	39

Medical	31
Diseases peculiar to women	12
Total	181

The total number of prescriptions made in the hospital is 1145.

For surgical cases.....	480
eye and ear.....	235
medical.....	356
Diseases peculiar to women.....	74

The total number of operations performed is 80.

Surgical.....	52
Eye and ear.....	22
Diseases peculiar to women	6

The total number of cases treated is 240.

Surgical.....	109
Eye and ear	47
Medical	70
Diseases peculiar to women	14

Of the whole number of cases treated, two died; six were discharged as incurable. All other cases cured or in various stages of recovery.

The total amount of money paid into the treasury, received for medicines and appliances, \$110.

The Ladies' Homœopathic Hospital Aid Association have contributed \$25.80 in support of indigent patients.

We have had various indigent patients supported by their counties to the extent of \$276.04.

All of which is respectfully submitted,

A. R. WHEELER, M. D.,
Resident Physician and Surgeon.

The following communication was read by Regent Grosvenor:

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, MICH., June 27, 1882. }

To the Honorable Board of Regents:

GENTLEMEN,—Having been offered the position of surgeon to a prominent commercial corporation, I hereby tender my resignation as Resident Surgeon in the University Homœopathic Hospital, to take effect Oct. 1, 1882.

Respectfully,

A. R. WHEELER, M. D.

On motion, the resignation of Dr. Wheeler was accepted.

The following report, received by Regent Grosvenor, was ordered printed in the minutes :

Report of the Professor of Surgery.

To the President, and the Honorable, the Board of Regents :

GENTLEMEN,—The following surgical cases were treated at the clinic of the University Homœopathic College for the term ending June 24, 1882,—viz :

CASES.	No.	CASES.	No.
Anchylosis of joints.....	3	Septicæmia.....	2
Aneurism (traumatic).....	1	Spinal hyperæmia.....	2
Abscesses.....	11	Sciatica.....	1
Artificial anus (from hernia)....	1	Stricture of rectum.....	2
Ascitites abdominalis.....	2	“ “ urethra.....	9
Buroitis (chronic).....	4	Syphilis.....	4
Bubo, gonorrhœal.....	3	Stone in the bladder.....	3
Carcinoma.....	4	Sub-luxations.....	3
Cicatrices (wounds and scalds)...	3	Spermatorrhœa.....	1
Chancroid.....	3	Syphilitic ostitis.....	1
Cleft palate.....	2	Tumors, varieties of.....	19
Coxalgia.....	4	Tongue tie.....	2
Condylomata.....	5	Tonsilitis (chronic).....	
Dislocations (old).....	3	Talipes (varus et equinus) single	2
Dystalia.....	1	Talipes (varus et equinus) double,	1
Erysipelas (phlegmonous).....	2	Talipes equinus (single).....	1
Exfoliation of bone.....	3	Ulcers (varieties of).....	17
Exostitis of femur.....	2	Varicocele.....	2
Endostitis of femur.....	1	Vicious union of bone.....	1
Fistula in ano.....	4	Exstrophy of the bladder.....	1
Gonorrhœa.....	5		
Genu vulgum.....	1	Number of cases treated.....	241
Hemorrhoids.....	5		
Hydrocele (serotal).....	2	GYNÆCOLOGICAL CASES.	
Hare lip (compound).....	4	Atresia vaginæ.....	1
Lupus non exedens.....	2	Caruncles in urethra.....	1
Mercurialism.....	3	Endo-cervicitis.....	3
Necrosis of bones.....	8	Hyperplasia cervicitis.....	2
Ozæna syphilitica.....	2	Rupture of perineum.....	2
Paraplegia (traumatic).....	2	Recto-vaginal fistula.....	1
Paralysis.....	5	Rupture of the cervix.....	1
Paronychia.....	2	Uterine displacements.....	5
Periostitis.....	3	Vaginitis granulæ.....	2
Paraphimosis.....	2		
Phimosis.....	4	Gynæcological cases treated.....	18
Ranula.....	1	Surgical cases treated.....	241
Rheumatism art. chronic.....	5		
Spinal curvatures.....	45	Total number of surgical and gynæcological cases treated...	259

Of this number of surgical diseases treated in the Homœopathic hospital and clinic, there were 131 operations performed, some of which were known as the major operations of surgery, viz: three cases of stone in the bladder; one immense tumor of the mammæ; one case of atresia vaginæ with complete occlusion of the canal; three cases of resection from necrosis; three cases of external urethrotomy; three cases of internal urethrotomy; one case of Dupuytren's operation for artificial anus; one amputation of the thigh (lower third); two cases of perineal rupture with laceration of the recto-vaginal septum; three cases of tumors removed from the neck; one case of extrophy of the bladder; one case of lithrotomy; one case of resection of the entire ulna, besides scores of others of greater or less magnitude. The number of spinal-curvature cases treated during the term was 45, and 103 plaster casts applied according to my improved process, all of whom are cured or in various stages of improvement.

Of these 131 surgical operations, performed in various conditions of health and under circumstances quite different from the patient's usual mode of life, it is gratifying to state that not a single death occurred either in or out of the hospital, so far as I am informed.

Very respectfully,

E. C. FRANKLIN.

The following resolutions were submitted by Regent Cutcheon, and were adopted unanimously:

Resolved, That the honorary degree of Doctor of Philosophy be and the same is hereby conferred upon Alice Elvira Freeman, A. B., a graduate of this University, late Professor of History in, and now President of, Wellesley College, Mass.

Resolved, That the honorary degree of Doctor of Philosophy be and the same is hereby conferred upon Professor Thomas C. Chamberlin, of Beloit College, and State Geologist of the State of Wisconsin, who pursued post-graduate studies at this University.

Resolved, That the honorary degree of Master of Arts be and the same is hereby conferred upon Varnum B. Cochran, Superintendent of Public Instruction of the State of Michigan, formerly a student of this University, in the class of 1870.

Resolved, That the honorary degree of Master of Arts be and the same is hereby conferred upon A. E. Richards, M. D., of Florence, Italy.

On motion, the Board adjourned to 9 o'clock to-morrow (Thursday) morning.

MORNING SESSION.

Thursday, June 28, 1882.

The Board re-assembled in the room of the President at 9 o'clock A. M.

Present—the President, Regents Cutcheon, Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

The following communication was read by Regent Grosvenor:

To the Honorable Board of Regents:

GENTLEMEN.—Mrs. Juliet E. Perkins, having complied with the requirements of the College of Medicine and Surgery is hereby recommended for the degree of Doctor of Medicine.

A. B. PALMER, Dean.

June 28, 1882.

Regent Grosvenor submitted the following resolution, which was adopted:

Resolved, That the degree of Doctor of Medicine be and hereby is conferred upon Juliet E. Perkins, in accordance with the recommendation of the Faculty of the Department of Medicine and Surgery.

The following resolution, presented by Regent Grosvenor, was adopted:

Resolved, That the title of Dr. Henry Sewall be changed from "Lecturer on Physiology" to "Professor of Physiology," in compliance with the recommendation of the Department of Medicine and Surgery.

Regent Cutcheon presented the following resolution and recommended its adoption:

Resolved, That the communication of Professor E. Olney, relating to the title of Assistant Professor Beman, and the rank and pay of Associate Professors, be referred to the Committee on Literary Department for examination and recommendation.

The resolution of Regent Cutcheon was adopted.

Regent Walker submitted the following resolution, which was adopted :

Resolved, That the title of Charles S. Denison, M.S., C.E., be changed from " Acting Assistant Professor of Mechanical and Free Hand Drawing," to " Assistant Professor of Mechanical and Free Hand Drawing."

The following resolution, presented by Regent Cutch-eon, was unanimously adopted :

Resolved, That the memorial transmitted from the American Philological Association and the American Association for the Advancement of Science in regard to the matter of conferring the degree of Ph. D., *honoris causa*, be referred to a special committee consisting of the President, James B. Angell, Professor Henry S. Frieze, and Professor Chas. K. Adams, Dean of the School of Political Science, with the request that they will investigate the matter referred to, and report to this Board their recommendations thereon, before the next annual commencement.

The following resolution, submitted by Regent Cutch-eon, was adopted unanimously :

Resolved, That the hearty thanks of the Board of Regents are due, and the same are hereby tendered, to Professor Henry S. Frieze for his able and efficient administration of the affairs of the University, as Acting President, during the absence of President Angell as Minister of the United States to China, during a period of nearly two years.

A communication from Dr. W. J. Herdman was received, and, on motion, was referred to the Committee on the Medical Department.

On motion, the Board took a recess until after the close of the commencement exercises.

AFTERNOON SESSION.

Thursday, June 29, 1882.

The Board of Regents re-assembled in the room of the President at 4 o'clock P. M.

Present—the President, Regents Cutcheon, Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

The following report from Professor Mortimer E. Cooley, from the Department of Mechanical Engineering, was read by Regent Cutcheon :

UNIVERSITY OF MICHIGAN, }
June 26, 1882. }

To the President and Honorable Board of Regents of the University of Michigan :

GENTLEMEN,—At the close of this, my first year's connection with the University of Michigan, I deem it fit and an appropriate time to submit to your honorable body a report on the year's work, and on the future possibilities of the course in mechanical engineering. My connection with this University dates from the 9th of August, 1881, when, under orders from the Navy Department, I reported in person to the then Acting President; and my duties commenced immediately on being informed of the nature of the work I was expected to undertake. As explained to me then, it was desired to establish in connection with the course in civil engineering a parallel course in mechanical engineering, which, with the reorganized course in mining engineering, would make a complete school of engineering. With this object in view the course in mechanical engineering was laid out as it now appears in the calendar. It was arranged so as to permit of development according to the demands of the students who might elect the work offered. It was not expected that it would be found necessary to give instruction in the advanced courses under two years at least, or until students should be regularly entered for the degree of mechanical engineer. When that time should have arrived, it was recognized that the proper amount of technical work necessary for the degree of mechanical engineer could not be given with the present teaching force in the Department of Engineering.

The opening of the school year disclosed a much greater demand for the courses offered than was anticipated. Even the advanced courses were in demand, those which it is not possible to give at present. The work was commenced under the most encouraging auspices, and has continued, even with the necessarily hasty and imperfect preparation of the subject matter of the courses, to attract favorable attention and considerable application on the part of the students.

The following is a list of the courses offered, with the number of students electing them during the past year :

1. Workshop Appliances and Processes, Pattern Making, Moulding and Founding. A 2-5 course.....	5 students.
2. Mechanical Laboratory work (not given this year.)	
3. Mechanical Laboratory work. A 2-5 course.....	5 students.
4. Machinery. Machine Construction and Drawing. A 3-5 course.....	5 students.
5. Mechanism and Machine Drawing. A 2-5 course.....	10 students.
6. Machinery and Prime Movers. A 3-5 course.....	6 students.
7. Machine Design. A 3-5 course.....	1 student.
8. Thermodynamics, (not given this year.)	
9. Original Design, Estimates, Specifications, and Contracts. A 2-5 course	1 student
10. Naval Architecture, (not given this year.)	
11. Naval Architecture. A 2-5 course.....	1 student.
Total number of students	35

Courses *d* and *e* are identical with the courses of the same number in civil engineering, and the students taking them were mostly civil engineering students.

During the latter part of October the question of a mechanical laboratory was brought up for consideration. It was found that the \$2,500 appropriated by the Legislature for a mechanical laboratory in connection with the Department of Civil Engineering would revert to the State treasury on January 1, 1882, because that department was not ready to use it; and it was suggested that the money might be advantageously expended in erecting a building and equipping the same (as a mechanical laboratory) for the Department of Mechanical Engineering. Although at first it did not seem possible to expend so small a sum for so large a purpose and be able to secure any immediate and desirable results, by careful calculation it was found that certain definite results might be accomplished with benefit to a limited number of students; and it was decided that if a building could be erected leaving \$1,000 out of that \$2,500 for the purchase of machinery and tools, results justifying the expenditure of the whole sum might be expected. On that decision the building and fixtures as they now appear were erected, the \$2,500 being expended as is expressed by the following statement :

Contract for erecting building.....	\$1,450 00
Benches, shaft supports, forge, brass furnace, and cistern	143 24
4 H. P. engine and boiler.....	231 90
Shafting and pulleys, hangers and oilcups.....	67 15
Machine tools and hand tools	436 83
Cupola furnace and fixtures.....	100 95

Moulding sand	22 50
Cartage and freight charges	15 26
Expenses incurred in correspondence, and in visiting Detroit for the purpose of securing most advantageous offers in bill of tools needed, including visit of J. B. Davis to New York and Philadelphia.....	29 17
Total.....	2,500 00

The above account covers all the direct cash expenditures for the Mechanical Laboratory. Some indirect expenditures were incurred in making needed additional arrangements inside the building, including doors, work-benches, coal-bins, moulding tray, stair balustrade, and cupboards for materials and hand tools, which work was done by the regular University workmen and those students taking the course in Mechanical Laboratory work.

In this connection may be enumerated the gifts which the University has received for the Mechanical Laboratory, as follows: A No. 1 steel pressure blower, from B. F. Sturtevant, of Boston; a number of iron and steel tests, from the Pennsylvania R. R. Co.'s works, at Altoona; a number of photographs of modern iron working machinery, from Wm. Sellers & Co., Philadelphia; a few specimens of students' work, from the workshops of the Mechanic Art Department of Cornell University; and a large number from the shops of the Massachusetts Institute of Technology.

Notwithstanding considerable delay experienced in receiving goods from the manufacturers, it was made possible to open the Mechanical Laboratory at the beginning of the second semester. Six students were permitted to take the course, the number being confined to those who the first semester had taken the course in the theory of workshop practice. A large number of students inquired about the course and expressed a desire to take it, but were not permitted because of insufficient accommodation. The six who took the course were not confined to a prescribed course of work, as is contemplated for the future, but were engaged for a large share of the time in overhauling and erecting the machinery in the shop. Almost all of the machinery as it now appears in the shop was erected by them. In several instances it was found necessary to refit certain portions of the machinery before it could be used, and this work was also done by the students. The remainder of the time was devoted to grinding and putting in order the cutting tools, in performing some of the

simpler operations at the work-bench, in preparing work for the iron lathe, in wood-turning, forging, brazing, and soldering, and in running the engine. One student working for the master's degree was permitted to devote his entire time to the construction of an electric lamp with which to perform the experiments required by the subject of his thesis. Another student was permitted to devote a part of his time to the construction of a model of an automatic grain weigher to be used in mills and in grain elevators. The work of both of these gentlemen was creditable. Although broken and irregular the semester's work in the Mechanical Laboratory has shown conclusively that there is a demand for such work among the students, and that it may be made a successful and profitable, as well as a popular, course among the many such at this University.

Regarding the future of the Mechanical Laboratory it may be said, that with the present facilities, imperfect as they are in many respects, instruction of a valuable nature can be given to six or eight students, the time of this instruction, however, not extending over six hours a week. These six hours added to the time required by the other courses will demand of the Professor of Mechanical Engineering nineteen (19) hours of class-room work a week. To make the courses thorough it would doubtless be found necessary to curtail the work in some directions. This alternative is one not to be accepted if it is possible to avoid it; for the work as already prescribed in the calendar is barely sufficient to justify graduating men as mechanical engineers. If, however, it were possible to secure the services of an assistant, then the work in the Mechanical Laboratory could easily be made to cover twenty or thirty hours a week, and a proportionately larger number of students could be accommodated. Excellent results could then be attained, and without increasing materially the present shop facilities; but by the addition of two engine lathes, a planer, a shaper, and a few more hand-tools, which would make about all the present shop could contain, the instruction could be made much more valuable than is possible now. The additional tools could be purchased for \$1,500 or \$2,000. If this is thought to be too large a sum to expend for that purpose at present, a smaller sum, \$600 or \$800, would purchase a planer, which is an absolute necessity and must be had before an attempt can be made to do any work requiring the preparation of large, flat surfaces, and long, straight edges.

The assistant referred to should be a skilled mechanic in every sense of the word, and should have sufficient education to

make him an intelligent reader of such scientific matter as it would be desirable for him to become familiar with. He might be a man of long experience in the practice of his profession or trade, having learned it on the apprentice system, or he might be a graduate of one of the technical schools referred to in the appended reports and letters. On many accounts the latter would be preferable, as a man of college education would be able to impart information in a more scientific manner, and would command greater respect from the students. The cost of such an assistant might be \$1,000 or \$1,400 per annum.

These suggestions are respectfully made for your honorable consideration, and it is earnestly hoped that such favorable action may be taken as will at once permit of the course in mechanical engineering being offered in its most complete form. I should not feel justified in asking for assistance at this time except for the favorable position which the course has already taken. There seems to be good reasons for believing that this course will continue to grow in favor and that it will not lack for applicants. There is no doubt that a mechanical laboratory is needed in connection with a course in mechanical engineering and that it will not fail to be appreciated. I feel safe in predicting that its capacity will in the near future have to be largely increased; and I am convinced that where so many schools having this special feature have made it successful, the University of Michigan will not fail to place it on even a higher level, one not possible elsewhere.

Education in the mechanic arts has already become a prominent feature in the educational systems of this country and of Europe, and it has taken a position which its evident usefulness enables it to sustain with the highest credit. A great and growing necessity has long been felt for better educated mechanics and for more *practical* engineers; and it is generally recognized that this necessity can best be met by having in connection with our schools laboratories, or workshops, in which the practical nature of tools and materials can be studied at the same time with the theoretical. These laboratories, or workshops, should be open not only to the students of engineering and architecture, but also to those students whose time and circumstances permit to take only special work.

In concluding this report the following brief description of some of the more important American schools where this special workshop feature has been introduced is appended, for the pur-

pose of showing the progress already made in the introduction of this form of technical education ; and you are respectfully referred to the accompanying letters* and reports from which these descriptions are taken, for other and more minute particulars :

STEVENS INSTITUTE, Hoboken, N. J.—“ This superior institution has an annual income of \$40,000, and is devoted to the one thing of making mechanical engineers. The theory of this institution is that the mechanical engineer ought to be, and in the near future will be, as expert in the use of tools as he is in scientific calculations. Hence the institution provides alike for the theoretical and practical instruction of its students.” All students are required to labor in the shops six hours a week for the nine months, and eight hours a day for one month, of the year. The building occupied by the machine shop and carpenter shop is 50 ft. by 80 ft., and has in addition to the main floor a gallery 15 feet wide extending all around on the inside. Its equipment cost \$10,000, and was the gift of President Morton. Separate apartments are occupied by the foundry and smith shop, and for the exercises in steam fitting and millwrighting. The number of students is limited to one hundred. Instruction in the shops is given by one full instructor, assisted by two skilled workmen and one student who had learned his trade before entering the school. The salary of these instructors amounts to about \$4,000. The need is already felt at this institution for greater shop facilities, and it is estimated that \$25,000 at least would be required to provide them.

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY, Boston.—This institution gives instruction to nearly three hundred students. The course in the mechanic arts was established in 1876, and is devoted to two purposes : first, the making of working mechanics ; second, the making of mechanical engineers. Nine hours a week for two years is devoted to shop work. The following is a list of the shops in which practical instruction is given : the machine shop, 20×37 ft. ; the pattern weaving shop, $20 \times 32\frac{1}{2}$ ft. ; the forging shop, 20×39 ft. ; the chipping and filing shop, $20 \times 23\frac{1}{2}$ ft. ; the foundry, 20×41 ft. ; the carpentry and joinery, wood-turning, and pattern shop, 20×50 ft. . and two tool rooms, 6×6 feet. Each shop accommodates sixteen students at a time. The instruction in iron work is in charge of a thorough and skillful mechanic who served his seven years' apprenticeship,

* Letters and reports being voluminous, are not printed.

besides having had a long and varied experience in his profession. Assistance is rendered by a graduate of the school. It is intended at an early day to have new and larger shops, and to increase the time of shop instruction to three years.

WORCESTER FREE INSTITUTE, Massachusetts.—The Washburn Machine Shop was established in 1866 by the gift of the late Hon. Ichabod Washburn, of Worcester, and occupies a three-story building, 40×140 ft., with a two-story ell, 40×77 ft. The first floor of the main building is occupied by offices, the drawing room, machine shop and tool room; the second floor, by the wood shop and tool room; and the third floor, by the paint shop, pattern room, and store room. In the ell the first floor is occupied by the engine and boiler rooms and wash rooms; and the second floor, by a store room for lumber. The basement of the main building contains a forge shop, 20×40 ft. The cost of buildings was \$43,000, and equipment, \$25,000. Six months' solid labor in wood work is required of the students, and ten hours a week for four years in iron work. From eight to eleven workmen are employed in the shops, and instruction can be given to one hundred students. The object of the instruction is to make mechanical engineers and working mechanics.

CORNELL UNIVERSITY, Ithaca, N. Y.—The Sibley School of Mechanic Arts was established in 1870, by the gift of the Hon. Hiram Sibley, of Rochester, N. Y., and occupies a three-story building and basement, 42×110 ft., with an engine house in rear, 20×30 ft., a brass and iron foundry, 37×46 ft., and a stereotype foundry, 16×20 ft. The first floor of the main building is occupied by a machine shop and printing office, and a part of the basement by a forge shop, which also contains facilities for pipe fitting. The cost of buildings was \$29,000, and equipments, about \$13,000. The instruction is given by two professors, one assistant, and one foreman. It is intended in the future to employ two or three skilled workmen. The object of the instruction is to make mechanical engineers and working mechanics.

WASHINGTON UNIVERSITY, St. Louis, Mo.—The Manual Training School was established in 1879 by a special ordinance of the University, and occupies a three-story building about 45×100 ft. The first floor contains a forge shop, 29×39 ft., with twenty forges, cost \$1,500, a machine shop, 39×39 ft., with twenty-eight machine tools, cost \$8,000, and an engine room. The second floor contains a carpenters' shop, 39×39 ft., arranged for twenty students, cost \$1,000, and a pattern shop, 39×39 ft., with twenty

lathes, cost \$1,200. The third floor contains drawing rooms and recitation rooms. The cost of building was \$12,000, equipment, \$11,700, and land, \$6,000. The instruction in the shops is given by two full instructors and one assistant. About one hundred students can be accommodated. The course extends over three years, the object being to prepare students for a course in mechanical engineering, and to fit them for some industrial pursuit. The facilities are to be doubled soon.

THE ILLINOIS INDUSTRIAL UNIVERSITY, Champaign.—The Mechanic Art Department was opened about 1873, when the State appropriated \$25,000 for a building for military purposes and for a mechanical laboratory. The equipment of the machine shop, vise shop and pattern shop cost about \$5,000, and accommodations are furnished for fifteen students in each. It is proposed to build a forge shop for sixteen students. At present instruction is given to twenty-five students. The capacity is to be doubled this year. The students are required to work two hours a day for the first two years, and one term during the senior year, on some model or project. The foreman of the machine shop is paid \$600. The object of the instruction is to fit students for mechanical engineering, and also to make working mechanics.

THE OHIO STATE UNIVERSITY, Columbus.—A new building has been erected in connection with this institution by the aid of a State appropriation, and is devoted exclusively to manual work. It contains a machine shop, 30 × 40 ft., with thirteen machine tools, and vise benches along the walls for sixteen students, a forge shop, 25 × 30 ft., with four forges, a foundry, 25 × 30 ft., and a pattern shop for eight students. The cost of building was \$4,600, and equipment, \$5,500. The object is to give instruction to those students intending to become mechanical engineers.

THE UNIVERSITY OF MINNESOTA, Minneapolis.—The Mechanic Art Department was established in 1881, and contains a vise shop, a forge shop, and a wood shop, all temporarily located in the basement of the agricultural building. New and special buildings are to be erected this year, when a machine shop and foundry will be added to the present facilities. The instruction is given by one special instructor, and ten students can be accommodated. The object is to give the students of mechanical engineering a practical knowledge of the use of tools and materials.

PURDUE UNIVERSITY, Lafayette, Ind.—The Mechanic Art Department was established in 1879, and excellent facilities are

afforded a limited number of students to prepare for a course in mechanical engineering, or for some industrial pursuit. Work is required of the student in the shop two hours daily five days in the week for two years, and embraces courses in wood work including wood turning and pattern making, vise work in iron, forging, and machine tool work in iron.

THE STATE COLLEGE, Orono, Me.—The Mechanic Art Department was established in 1878, with facilities for giving instruction in vise work and forging. Forty-two lessons of three hours each, five days in the week, are devoted to each course. The shop work accompanies the studies of the college, and does not interfere with them. It has proved so successful that the system is to be extended in that school.

Respectfully submitted.

M. E. COOLEY,

Asst. Engineer, U. S. Navy,

Professor of Mech. Engineering.

At the close of the discussion on the report, Regent Cutcheon presented the following resolution, which was adopted unanimously :

Resolved, That the report of Professor M. E. Cooley, in charge of the course in Mechanical Engineering, with the accompanying documents, be accepted and placed on file, that the report be printed in the Minutes, and that the subject matter thereof be made a special subject of memorial to the next Legislature of the State.

Regent Blair presented the following resolution, which was adopted :

Resolved, That the Committee on Finance be instructed to examine into the condition of the finances of the University and the methods of conducting its business generally, and report to this Board at its next meeting its condition, as to its present and future needs, and what if any further regulations are necessary to the proper and safe conduct of its business.

Regent Duffield, chairman of the Library Committee, read the annual report of the Librarian, as follows :

Librarian's Report for the Year 1881-82.

To the Honorable Board of Regents of the University of Michigan:

I have the pleasure of reporting more accessions to the library this year than there have been any previous year of its

existence, except the year in which its foundations were laid in the 3,700 volumes purchased abroad by Dr. Gray, and the year in which the Parsons library was received.

There have been added since July 1, 1881, 2,700 volumes and 479 pamphlets. Of these 1,904 volumes and 276 pamphlets were purchased, 516 volumes and 203 pamphlets were presented, and 280 volumes were the result of binding periodicals.

In no year have there been such important additions. I will mention Poggendorff's *Annalen der Physik und der Chemie*, 179 volumes, costing \$562.50; Crelle's *Journal für reine und angewandte Mathematik*, the gift of Mr. Hegeler; the Percy Society Publications, 32 volumes, costing \$150.00; and the Camden Society Publications, 127 volumes, costing \$58.00.

One hundred and forty-four periodicals, American and foreign, have been received regularly. In addition to these the Students' Lecture Association has furnished for the Reading Room 60 magazines and newspapers.

The books and pamphlets purchased cost.....	\$ 2,991 44
The sum of the subscription list to periodicals was.....	560 20
For works issued in parts there have been paid.....	230 40

Besides the volumes of periodicals bound and counted as accessions to the Library, 186 volumes have been rebound, and 68 repaired.

The book-binder's bill for all the work was.....	\$ 300 43
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The miscellaneous expenses of the Library grows from year to year.

Tickets for the use of readers have cost this year.....	\$ 30 00
Catalogue cards.....	10 43
Labels for names of doners of books.....	1 00
Printed acknowledgements for gifts	6 53
Other miscellaneous expenses.....	21 59

The bills for transportation are not presented to me, and I am unable to give the amount of them.

The total of bills certified to by me, as librarian, is \$4,152.02.

The Library contains at this date 33,903 volumes, and 8,184 pamphlets, distributed as follows :

In the main collection.....	32,394 vols., and 7,001 pamphlets.
At the Observatory.....	682 " " 183 "
" " Botanical Rooms.....	283 "
" " Dental College.....	205 "
" " Chemical Laboratory.....	339 "

During the year the unbound pamphlets have been examined, and wherever a sufficient number to make a volume was found on one subject, these were put into a cheap binding. In this way the count of pamphlets has been decreased by 818, and the count of volumes increased by 59.

It is our policy to put upon the books all the repairs needed to keep them in a safe condition for use. There are many volumes that are in use constantly, and these will, at no remote time, in spite of mending and rebinding, be worn out. Of a few of these there are duplicate copies. Many more should be duplicated, and of some works there should be at least three copies.

One volume and one pamphlet have been missed from the main collection. It is possible that they have been misplaced, and will reappear when we take possession of our new quarters, and the shelves of the old are emptied.

All books were "present or accounted for" at the Observatory and the Botanical Rooms.

Three were missing from the Chemical Laboratory, and 20 from the Dental College. For these last it is quite probable that Dr. Taft will be able to account. His record could not be found when my visit to the books was made.

The Library was kept open five hours daily during the vacation.

In that time (12 weeks) there were drawn and used in the	
Reading Room.....	1,716 vols.
During the remainder of the year (40 weeks).....	80,920 "
Loaned to members of the Faculty during the year.....	3,100 "
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85,736 vols.	

The recorded use of the library for the year, therefore, has been 85,736 volumes, an increase of 4,437 volumes over last year.

There are uses of the books of which we are unable to obtain an account. What these uses are can be briefly told in the language of last year's report.

"The *recorded use* does *not* include the use made of the Library by the professors, as a *reference library*, or by the post-graduate students, or the use made of the books at the Observatory, the Laboratory, the Botanical Rooms, and the Dental College. It is proper to explain, also, in this connection, that loans of books, varying in number from 50 to 100 volumes are

made annually to the Physical Laboratory, and to the work-rooms of the Museum."

The reading of the year—that part done in the Reading Room—has been classified with the following results :

Bound periodicals, exclusive of medical, constituted.....	19	per cent.
History and Politics	16½	"
In detail—Ancient History	2	per cent.
American "	6	"
English "	4	"
Other history	2½	"
English Literature	16	"
In detail—Poetry	4	per cent.
Prose Fiction	3½	"
Other kinds	8½	"
Politics	2	"
Medicine, including bound Medical periodicals	13	"
Political Economy and International Law	3	"
Modern Languages and Literature	3½	"
Greek " " "	3½	"
Latin " " "	2½	"
Biography	3½	"
Metaphysics, Logic, and Ethics	3	"
Encyclopædias and Almanacs	2½	"
Education	2	"
Physics	1½	"
Theology	1	"
Fine Arts	1	"
Sanskrit and Comparative Philology	1	"
Chemistry	1	"
Mathematics	1	"
Astronomy	1	"
Miscellaneous	4½	"

It is not claimed for these statistics that they show accurately the comparative amount of reading done by particular classes of students in the prosecution of their college work. It is impossible that they should do so. Students in history consult books in other branches of literature, and *vice versa*; and all students, whatever the nature of their studies, and readers who are not students, read more or less history and *belles lettres*. The record has simply to do with the kind of books called for, and not with the purpose of the reader.

In further explanation of the percentages I will quote again from last year's report :

"The low per cent. of reading in Physics, Astronomy, and Chemistry, and the failure of Geology, Palæontology, Zoölogy, Botany, and some other subjects to appear at all, is rather mis-

leading. These subjects are read at the places where the technical works on them are permanently, or temporarily, located, and we cannot cast our statistical net so as to enclose their use."

The principal gifts of the year have been those of Mr. Hegeler, and Mr. Parsons, which have already been brought to the notice of the Board. Crelle's Journal, the gift of Mr. Hegeler, I have already named. The gift of Mr. Parsons was a copy of Kuhn's "*Zeitschrift für vergleichende Sprachforschung*" from 1852 to 1881, in 25 volumes.

Mr. A. E. Richards has continued to send from Italy packages of books and coins alternately. The number of volumes presented by him this year is 25.

A set of the Chinese Classics, in 28 volumes, was presented by President Angell on his return from China.

J. O. Halliwell-Phillips, Esq., the Shakespearean scholar, sent, by the hand of Professor Demmon, 3 volumes of his *Memoranda of Shakespeare*.

Dr. Dunster and Professor Harrington have each given several volumes.

Other valuable gifts, from departments of the national government, and the state governments, from learned societies, and from individuals, have been received, of which a list, with the names of the donors, accompanies this report.

The new methods of instruction have so increased the dependence of the students upon the library that, since the first of April, I have kept it open an additional hour for their accommodation. It is open now 11½ hours daily.

I have given the usual number of lectures on subjects connected with books and reading; and, in all ways open to me, I have labored to increase the number of volumes in the library and their usefulness.

The regular daily duties have this year been more arduous than ever before. In their performance I have been efficiently aided by my assistants. The services of one of these, Carril M. Coe, I shall lose at the end of the college year. He has been five years connected with the library, and during all that time has been prompt and faithful in the performance of his duties. I regret greatly that he finds it necessary to leave.

During the vacation I hope to visit some of the college libraries where the classification of books has been studied with

reference to the wants of the departments of instruction. I wish to acquaint myself with results in this direction, and with all the results of library administration that will be of interest and importance to us when we remove to the new building. I will make no recommendations now, but will ask permission to present a supplemental report in October, which shall embody the results of my investigations, and, also, what the Library Committee may recommend in reference to the reorganization of the library force.

Very respectfully submitted.

R. C. DAVIS, Librarian.

Ann Arbor, June 27, 1882.

LIST OF GIFTS, 1881-2.

Crelle. Journal f.d. reine u. angewandte Mathematik. 90 vols.

.....	Mr. E. C. Hegeler.
Zeitschrift f. vergleichende Sprachforschung. 25 vols.	Hon. Philo Parsons.
Winks. Uses of the Study of Coins. Pamphlet.....	Mr. A. E. Richards.
Görres. Anastasio.....	"
Digestorum seu Pandectarum pars secunda. 1571.....	"
Augustini Libri XIII. Confessionum. 1726.....	"
Burke. Origin of our Ideas of the Sublime and Beautiful....	"
Goldsmith. Il Compendio della Storia Romana.....	"
Homeri Ilias. 1642.....	"
Ovid. Metamorphoses. Dryden's Translation.....	"
Horace. Translated by Francis and Page.....	"
Gazzino. Manuale per gli Studiosi de Lettere Italiane	"
Durdeut. Histoire d' Angleterre.....	"
Scott. " de France. Tome 3.....	"
Q. Curtii Rufi. Historiarum. Libri. 1673.	"
Comœdiæ ex Plauto, Terentio and Senecæ. 1748.	"
Epitome Chrysostomi. 1567.	"
Theatre de Corneille. 1709.	"
Galen. 1550.....	"
Methodus ac de Ratione Studiendi, etc., etc. 1581.....	"
Concilii Tridentini Canones. 1688.....	"
Ovid. 1546.	"
Constantinus de Agricultura. 1541.....	"
Æsop. 1737.....	"
Valerius Maximus. 1640.	"
Conti. Dialoghi dell' Arte. 1865.....	"
Sautuoco. La Appa Armillare de Tolemeo. 1876.....	"
Halliwell-Phillips. Shakespeare Memoranda. 3 vols.....	
.....	J. O. Halliwell-Phillips.
Vulgate. New Testament.....	H. Sotheran & Co.
Illustrations from Scribner's Monthly.....	Century Company.
Robinson & Abney. Silver Printing.....	Anthony & Co

Chinese Classics. 28 vols.	Pres. J. B. Angell.
Fritzsche. Climate of Eastern Asia	"
Wilkinson. Human Science, etc.	"
Memorial of J. S. Petigne	"
Frieze. History of Efforts to Extend Suffrage in Rhode Isl- and	Prof. H. S. Frieze.
Anglo-Chinese Calendar. 1832. Pamphlet.	"
The Investigator. In Buresse Language. Pamphlet.	"
Pollock. Course of Time.	Prof. I. N. Demmon.
Adams. Manual of Historical Literature	Prof. C. K. Adams.
Pehham. What would become of the World if all should be- come Quakers? Pamphlet.	Mr. R. C. Davis.
Curtis. Equal Rights for Women.	Pamphlet.
Williamson. Eunuchus Palliatus	Mr. C. M. Gayley.
Cooley. Recording Laws of the United States.	Hon. T. M. Cooley.
Know-Nothing Almanac. 1855.	Dr. H. C. Adams.
Adams. Jubilee of the Constitution. 1839.	"
Nolt. Slavery and the Remedy. 1856.	"
Proceedings Rhode Island Anti-Slavery Convention. 1836.	"
Burritt. Plan of Brotherly Co-partnership. 1856. Pamphlet.	"
Addresses on the Death of Calhoun. 1850.	"
Webster. The Rhode Island Question. 1848.	"
Porter. State Sovereignty. 1860.	"
King. Eulogy upon J. Q. Adams. 1848.	"
Adams. Geschichte der Bestenerung. 2 pamphlets.	"
Britten & Holland. English Plant Names	Prof. M. W. Harrington.
Loreiro. Flora Cochín-Chinensis. 2 vols.	"
Beutham. " Hongkonensis	"
Ledebour. " Altaica. 4 vols.	"
Franchet & Savatier. Ennumeratio Plantarum. 2 vols.	"
Jahrbuch f. Wissenschaft. Botaiuk. Bd. 11	"
Maximowicz. Primitiæ Floræ Amurensis	"
Wentworth. Plane and Solid Geometry	Mr. C. N. Jones.
Borck. Fracture of the Femur	Dr. E. S. Dunster.
History of Washtenaw County	"
Smith. Diseases of Children	"
Playfair's Midwifery	"
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Report of Chief of Ordinance, 1881.....	Gen. S. V. Benet.
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Congressional Record. 17 vols.....	Hon. H. P. Baldwin.
Report of Fish Commissioner, 1875-6, 1878.....	" "
" Entomological Commissioner, 1878-9.....	" "
" Geological Survey of the Territories, 1877.....	" "
" Department of Agriculture, 1879.....	" "
" Chief of Bureau of Statistics, 1877, 1880.....	" "
" Smithsonian Institution, 1879.....	" "
" Culture of the Sugar Beet, 1880.....	" "
" State of Labor in Europe, 1878.....	" "
" Director of the Mint, 1881.....	" "
" Commission on Coinage, 1879.....	" "
" U. S. Geol. Survey west of the 100th Meridian.....	" "
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Memorial of Joseph Henry.....	" "
" " Alph. Williams.....	" "
" " Z. Chandler.....	" "
Newcomb. Observations on the Transit of Venus, 1874.....	Hon. Edw. Willits.
Report on Commerce, etc., etc., 1880-'81.....	Hon. O. D. Conger.
" of the Bureau of Ethnology, 1879-'80.....	" "
Message and Documents, 1880-'81.....	" "
Report. Life-Saving Service, 1881.....	Supt. L. S. Service.
Holden. Multiple Star Sigma 748.....	Naval Observatory.
Gauss. Method of Computing Secular Perturbations. Pamphlet.....	Supt. of Amer. Ephemeris.
Report of the Lighthouse Board, 1881.....	Lighthouse Board.
" " " U. S. Entomologist, 1879 and 1880. Pamphlets.....	J. H. Comstock.
Williamson. The Dakotan Languages.....	G. W. Williamson.
Great Britain and Ireland's Calamities. 1721. Pamphlet.....	Geo. C. Mahan.
Battersby. Secret Policy of the Land Act. Pamphlet.....	" "

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Report of Northwestern Branch of National Home for Disabled Soldiers, 1881.....	G. W. Barber.
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House " " 2 vols.....	" "
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Report of Supt. of Public Instruction, 1880.....	Supt. C. A. Gower.
School Laws, 1881.....	Supt. V. B. Cochran.
Report of Commissioner of Railroads.....	Hon. W. B. Williams.
" " " Insurance.....	Hon. S. H. Row.
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Legislative Manual, 1881.....	Hon. D. B. Briggs.
Resultados del Observatorio Argentin. Vol. 2.....	B. A. Gould.
Report of the Peabody Institute—Baltimore, 1882. Pamphlet.....	Librarian Peab. Inst.
Blake. Aerodynamics.....	Pres. J. B. Angell.
Report of the Boston Schools. Pamphlet.....	" "
Rice. Amphioxus Lanceolatus. ".....	" "

The following resolution, presented by Regent Duffield, was adopted :

Resolved, That the Board of Regents authorize the Librarian, Mr. R. C. Davis, to offer a course of lectures on Bibliography to the students of the Department of Literature, Science, and the Arts, with the understanding that students who elect and attend the lectures, and pass examination on them, shall receive credit for a one-fifth course.

Regent Duffield presented the following resolution, which was adopted unanimously :

Resolved, That the full Committee on the Library, viz., the Regents' committee, and one professor from each Department, be instructed to present to the Board, at their next meeting, a detailed report of exercises appropriate to the opening of the Library Building, and especially on the best method of improving the occasion for securing the addition of at least 20,000 choice and much needed books.

Regent Shearer presented the resignation of Seward W. Williams, assistant in the Chemical Laboratory, which, on his motion, was accepted.

Regent Shearer also read the following communication from the Director of the Chemical Laboratory :

UNIVERSITY OF MICHIGAN,
CHEMICAL LABORATORY, }
June 28, 1882. }

To the Honorable, the Board of Regents :

GENTLEMEN,—I beg leave to present you, upon his request, the resignation of Seward W. Williams, Ph. C., as Assistant in the Chemical Laboratory, this resignation to take effect at the close of the present University year. And I beg to recommend the appointment, in the place of Mr. Williams, of Charles W. Dodd, Ph. C., as Assistant in the Chemical Laboratory, to commence with the next University year. Also the appointment of Arthur L. Greene, Ph. C., as Assistant in the Chemical Laboratory for the University year 1882-3.

For the following named Assistants in the Chemical Laboratory, engaged for partial duty, with privileges of study when not required in teaching, and supplying a large amount of valuable service for a comparatively slight expenditure, I ask leave to recommend compensation as follows :

For Lucius L. Van Slyke, continued in duty.....	\$130 per annum.
For Charles P. Pengra, continued in duty.....	\$130 per annum.
For Charles W. Dodd, in place of Mr. Williams.....	\$130 per annum.
For Arthur L. Greene, appointed in addition to the previous teaching force.....	\$ 30 per annum.

I beg leave to acknowledge the faithful and capable service of all the officers of instruction in the Chemical Laboratory during the year 1881-2, throughout which all branches of instruction have been filled to the fullest capacity of our rooms, and, in the second semester, quite in excess of the regular number of places for students. The attendance of the year has been as follows :

	1881-2. 1880-1.	
Whole number of Students from the Medical and Dental Schools	382	332
Whole number of Students from the Department of Literature, Science, and the Arts.....	61	39

1881-2. 1880-1.

Whole number of Students from the School of Pharmacy,	100	80
(Increase, 20 per cent.)-----	543	451

Very respectfully submitted.

ALBERT B. PRESCOTT,

Prof. Applied Chemistry.

(In charge of Chem. Lab.)

On the conclusion of the reading of the above report, Regent Shearer recommended its adoption.

The vote on the adoption of the report was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

Regent Blair presented the following resolution :

Resolved, That the Treasurer be authorized to employ a clerk, as may be needed, to assist him in his office, at a salary not exceeding the rate of \$500 a year.

On motion of Regent Blair, the resolution was referred to the Committee on Finance.

The following resolution was presented by Regent Grosvenor :

Resolved, That Dr. Charles F. Dight, assistant to the Professor of Pathology and Practice of Medicine, is entitled to a salary of \$200 for the year ending October 1, 1882, and that he be paid such amount less the amount he has received for such services.

The vote on the adoption of the above resolution was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

The following resolution was presented by Regent Walker :

Resolved, That the Secretary of this Board be directed to forward to C. R. Miller, Esq., Adrian, Mich., a certified copy of the Beatty contract, as requested by said Miller.

The resolution was adopted.

The following communication was read by Regent Grosvenor :

To the Honorable, the Board of Regents :

GENTLEMEN,—The chair of Materia Medica and Clinical Medicine is soon to become vacant, and the Faculty and Examiners respectfully request you to appoint H. C. Allen, M. D., as Lecturer to fill said chair the coming year.

T. P. WILSON, Dean.

Regent Grosvenor moved that the request of the Faculty of the Homœopathic Medical College, as expressed in the above communication, be granted.

Ayes.—Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

The following resolution was presented by Regent Walker :

Resolved, That the Board of Audit be authorized to borrow such sums as may from time to time be necessary, not exceeding the sum of \$20,000, all of which indebtedness to mature on October first, next.

The vote on the adoption of the above resolution was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the matter of heating the building occupied by the Director of the Astronomical Observatory be referred to the Committee on Buildings and Grounds, with discretionary powers.

The following resolution was presented by Regent Grosvenor, and adopted :

Resolved, That the Committee on Buildings and Grounds be and are hereby authorized to make such alterations in the capacity and arrangement for heating the buildings as may, after a thorough and intelligent examination, be found necessary.

The vote on the adoption of the above resolution was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Grosvenor, and Shearer.

Nays.—None.

Regent Shearer submitted the following resolution :

Resolved, That the following sums be appropriated for the purposes named, to be expended under the direction of the Secretary of this Board :

For increasing the height of the chimney at Chemical Laboratory.....	\$100
For repairs on steam boilers at Chemical Laboratory.....	175
For the purchase of steam pipe and fittings.....	200

The resolution was adopted by the following vote :

Ayes.—Regents Cutcheon, Walker, Duffield, Grosvenor, and Shearer.

Nays.—None.

Regent Walker presented the following resolution, and recommended its adoption :

The Joint Committees of the Medical Department and Finance would offer the following resolution :

Resolved, That the sum of \$800 be and is hereby appropriated for the purpose of purchasing permanent apparatus for the use of the department of Physiology in the Medical Department, as requested in the communication of Professor Sewall.

The vote on the adoption of the above resolution was as follows :

Ayes.—Regents Cutcheon, Walker, Duffield, Grosvenor, and Shearer.

Nays.—None.

Regent Cutcheon presented a communication from Acting Professor Spalding. Referred to the Committee on Literary Department. He also presented a paper from Acting Professor Wead, which, on motion, was referred to the same committee.

On motion of Regent Cutcheon, the Board adjourned.

H. D. BENNETT,

SECRETARY.

JULY MEETING---SPECIAL.

1882.

UNIVERSITY OF MICHIGAN,
Ann Arbor, July 28, 1882. }

The Board of Regents assembled in special session in the room of the President at 7½ o'clock P. M.

Present—the President, Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

The meeting was opened with devotional exercises by the President.

The minutes of the last meeting not having been printed, the reading of the same was dispensed with, on motion of Regent Grosvenor.

On motion of Regent Duffield, the Board went into execution session, and having spent time therein, resumed the business in open session.

Regent Blair submitted the following resolution which was adopted :

Resolved, That the increase of the fees of students in the Law Department lately made by this Board shall not apply to students who had entered the Department before said increase was made.

The following resolutions were presented by Regent Grosvenor :

Resolved, That without regard to the merits of any controversy which may exist or may have existed between the members of the Faculty of the University upon any question whatever, and however the Board of Regents may have decided or may decide any such question as between them, whenever it becomes apparent that there is such want of harmonious action and good

feeling among them as is or will be detrimental to the best interests of the University or as will result in the loss of the services of any of its members, it becomes the duty of the Regents to dispense with the services of those, whose departure will produce the least injurious results.

Resolved, That the interests of the Department of Medicine and Surgery of the University require that Dr. D. A. Joy retire from the position of Assistant in General Chemistry, and that unless his resignation is placed in the hands of President Angell on or before August 10, 1882, his connection with the University be declared terminated.

At the close of the discussion on the above resolutions presented by Regent Grosvenor they were adopted by the following vote :

Ayes.—Regents Walker, Duffield, Grosvenor, Shearer and Joy.

Nay.—Regent Blair.

Regent Joy moved that the resignation of Prof. G. E. Frothingham and that of Professor Donald Maclean also, be laid upon the table. The motion prevailed.

Regent Walker submitted the following motion which was adopted :

Resolved, That the Board of Audit be authorized to employ assistant help in the care of the Museum at an expense not to exceed \$150 per annum.

Ayes.—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays.—None.

A communication from Mr. E. W. Leavenworth of Syracuse N. Y., was received, and on motion of Regent Grosvenor, was referred to the committee on Finance and the committee on the Department of Law, jointly.

Regent Grosvenor presented the following motion :

Resolved, That when this Board adjourns, it adjourn to Monday, October 10th, 1882, at 7 o'clock P. M. Agreed to.

On motion of Regent Duffield, the Board adjourned.

H. D. BENNETT,

SECRETARY.

OCTOBER MEETING.

1882.

UNIVERSITY OF MICHIGAN,
Tuesday, October 10, 1882. }

The Board of Regents assembled in the room of the President, at 7 o'clock P. M.

Present—The President, Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair and Joy.

The meeting was called to order and opened with devotional exercises by the President.

The minutes of the two preceeding meetings were approved as printed, on motion of Regent Grosvenor.

The President stated that his annual report had been prepared and was held subject to the pleasure of the Board. Regent Grosvenor moved that the report be read by the President. The motion prevailed.

PRESIDENT'S REPORT.

To the Honorable Board of Regents :

In offering to you my annual report for the academic year ending September 30th, 1882, I desire first of all to thank you most sincerely for the kindness with which you granted me leave of absence in 1880 to undertake important diplomatic duties entrusted to me by the President of the United States. I wish also to make most hearty and grateful recognition of the eminent services of Dr. Frieze, who at your request assumed the burdens of my office and brought to his work an energy and skill, which largely conduced to the marked prosperity of the University during the last two years.

I cannot but congratulate you on the evidences which I find of the progress that was made during my absence. The Eye and

Ear Infirmary was erected, the sewer extending from our grounds to the river was completed, the capacity of the Chemical Laboratory was nearly doubled, the Museum building was completed and occupied, the interior of the North College was partially reconstructed, and the new fire proof Library Building so long desired and so sorely needed was begun. A professor of Mechanical Engineering was appointed, and work in that useful branch has been organized and has been begun with a skill and an enthusiasm which promise excellent results. A School of Political Science has also been established, and has been most warmly commended by the public press. The number of students during the last two years has been larger than ever before. All these signs of growth and prosperity are most inspiring.

The changes in the Faculties during the past year have been fewer than usual. William P. Wells, A. M., Kent Professor of Law, who had been unable by reason of illness for some time to discharge his duties, has resumed his place. Henry Sewall, M. D., has been appointed Professor of Physiology in the Department of Medicine and Surgery, and has been for some months giving instruction.

Degrees have been conferred as follows :

DEGREES ON EXAMINATION.

Bachelor of Letters.....	8
Bachelor of Science	9
Bachelor of Philosophy.....	19
Bachelor of Arts.....	39
Master of Letters	1
Master of Science.....	3
Master of Philosophy	1
Master of Arts	4
Doctor of Philosophy	2
Doctor of Medicine (Department of Medicine and Surgery).....	92
Bachelor of Laws.....	170
Pharmaceutical Chemist.....	40
Doctor of Medicine (Homeopathic College).....	15
Doctor of Dental Surgery.....	32
	<hr/> 435

HONORARY DEGREES.

Master of Arts	2
Doctor of Philosophy	2
	<hr/> 439

Of those who were graduated as Bachelors of Science, three had taken the course in Civil Engineering. The degrees of

OCTOBER MEETING, 1882.

Civil Engineer and Mining Engineer are now offered only as second degrees.

The number of students in attendance was fifteen hundred and thirty-four, exactly the same as in the previous year. They were distributed as follows :

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Resident Graduates.....	13
Candidates for a Degree.....	398
Students not Candidates for a Degree.....	102-513

DEPARTMENT OF MEDICINE AND SURGERY.

Resident Graduate	1
Third Year Students.....	97
Second Year Students.....	144
First Year Students	138-380

DEPARTMENT OF LAW.

Seniors.....	179
Juniors	216-395

SCHOOL OF PHARMACY.

Resident Graduate	1
Second Year Students.....	44
First Year Students	55-100

HOMŒOPATHIC MEDICAL COLLEGE.

Students-total in the College.....	71
------------------------------------	----

COLLEGE OF DENTAL SURGERY.

Students-total in the College.....	75
------------------------------------	----

1,534

Of these, the number of women was 184, as follows :

Literary Department.....	110
Department of Medicine and Surgery.....	44
Department of Law	2
School of Pharmacy.....	5
Homœopathic Medical College	19
Dental College	4

A good proportion of the women who have graduated here are holding conspicuous positions either as medical practitioners or as teachers in High Schools, Academies, and Colleges. No less than six members of the present Faculty of Wellesley College, including the President, are graduates of this University. Several women who graduated from the Medical Department are in heathen lands discharging the varied and responsible duties of medical missionaries.

About three-fifths of the students in the Literary Department were from Michigan. More than half of the students in the other Departments were from elsewhere. Perhaps no other institution in the country has so wide-spread a constituency. Last year we had students from every one of the Eastern, the Middle, and the Western States, and from every Southern State but four, from four Territories and the District of Columbia, and from Ontario, New Brunswick, Manitoba, the Hawaiian Islands, Nicaragua, Cuba, Bermuda, England, Ireland, Roumania, Egypt, and Burmah.

It is a cause of satisfaction that the increase in attendance has not been due to the lowering of the standard of admission, but has come during those years when we have been gradually raising the standard. The attainments of students who matriculate as candidates for degrees in the Department of Literature, Science, and the Arts represent nearly, if not quite, a year's work in addition to what was asked ten years ago. We are grateful to the excellent High Schools in the State for their aid in accomplishing this most desirable result. The increased requirements for admission to the Professional Schools, though by no means so stringent as we hope to see them at no distant day, have had a beneficial influence on the Schools. The lengthening of the Medical Course to three years, and the grading of the work, have attracted rather than repelled the best class of students. It seems probable that the increase in fees which it has been deemed necessary to make, will cause a slight diminution in attendance the coming year.

Work in the Mechanical Laboratory has been very auspiciously begun. The courses offered have proved very attractive and very beneficial. It was not possible for the Professor alone and in his narrow quarters to give instruction to all who desired it. The utility of actual work with tools and machines to engineers is now recognized in leading schools on both sides of the Atlantic. It is to be hoped that means may be placed at our disposal for enlarging the equipment of the Laboratory, and for providing a suitable assistant for the Professor.

The attention of the Board has been called during the year to the need of a more thorough organization of the microscopical work in the University. The aid of the microscope in giving instruction or in making researches in several of the sciences, is now so indispensable that within the last few years we have been purchasing instruments until now they number more

than a hundred. These are used in the study of Human, Comparative and Vegetable Histology, Botany, Zoölogy, Mineralogy, Palæontology, Pathological Anatomy, and Physiological and Analytical Chemistry.

Notwithstanding our supply our students are so numerous that some addition to it seems to be needed. It appears also that in order to secure economy and efficiency we should have a central laboratory for instruction in the use of the instruments in Histology and Pathological Anatomy. Instruction by the microscope in the other sciences could be given in the rooms now devoted to it. The report presented by a special committee of Professors on the whole subject is so exhaustive that I need not do more than to express the hope that we may be able at no distant day to provide the needed laboratory and instruments.

Our laboratory of Physics needs important additions to its apparatus. Perhaps in no department has the progress of investigation been more rapid during the last few years than in Physics. In none have more important discoveries been made. The leading institutions in the land have therefore wisely devoted large sums to the equipment of laboratories for instruction and research in Physics. In no branch is our supply of the proper means of illustration so inferior to that of the best schools. I trust that as rapidly as our friends will permit, we shall place our Physical laboratory at least on an equality with those of institutions whose grade of scientific work may be fairly compared with ours.

The school of Political Science, which was established at the beginning of the year, has attracted much attention, and the plan of work laid out for it has been heartily approved by the press of the country. The courses of instruction were attended by interested classes. Some pains were found necessary to secure a desirable adjustment of the work of the school to that of the Department of Literature, Science and the Arts, but the result has been satisfactorily attained, and there seems to be now no obstacle to the successful career of the school. The establishment of similar schools in other universities is only one of many signs that the need of special training in the political sciences is widely recognized. The report of the Dean of the School furnishes details of the year's work.

Acting President Frieze in his learned and suggestive report last year called attention to the propriety of drawing the line at the end of the second or sophomore year of college life, not only

in the School of Political Science, but in the entire Department of Literature, Science and the Arts, between the secondary education and the higher or genuine University education. The subject has received most careful and prolonged consideration during the year from the Faculty of that Department. The result of their deliberations appeared in the plan which in May they asked you to adopt. It permits students to proceed for the Bachelor's degree on the "credit system" which has been in use in the past. But it also permits those who have completed two years of work to proceed for a degree upon what we call the "University system." Under this the candidate will not be held to the completion of a fixed number of courses, but will under the direction of a committee of the Faculty take a large amount of work in a limited range of studies, and at the end of the fourth year of residence sustain a searching examination. If his attainments warrant, he will win a Bachelor's degree; if they are very conspicuous and he presents a meritorious thesis, he may attain a Master's degree. He may then continue his studies for a Doctor's degree. It is expected that those who seek a degree upon the University system will pursue a somewhat freer method of study than others, and will concentrate their labor on a few studies with the purpose of making large attainments in them, rather than of making limited attainments in many studies. It is hoped that a manly and enthusiastic spirit of investigation and research will be fostered, and that scholarship of a lofty type will be stimulated. We are aware that we are taking a very important and a bold step. But it is not the first time that this University has taken bold steps. It is entirely probable that we may find it expedient to modify some of the details of the scheme we have adopted. But we are very hopeful that the general results will justify us in retaining the main features of our plan.

The reports of the Deans of the Professional Schools show that they have been enjoying their usual prosperity. The Faculty of the Department of Medicine and Surgery has been strengthened by the addition of a Professor of Physiology. He needs very much a larger equipment for the development of a Physiological Laboratory. It is a cause of satisfaction that the Professional Schools are able to continue to raise gradually their standard of admission without reducing their numbers.

It seems probable that soon the question of larger hospital accommodations will be forced upon us. The official reports

show that the pressure on us was very great last year and a considerable number of patients, I am informed, were obliged to find rooms in private houses. It would not be difficult to show that the hospitals return to the State more than the value of all it expends on them by restoring to health and productive power persons who would otherwise remain as a charge upon the public treasury. If the State should see fit to erect a hospital sufficiently large and the counties or a considerable number of them should send here their invalid poor, now lying helpless in the almshouses, and pay for their support while they are under the skillful treatment of our Professors and our nurses, it cannot be questioned that the investment would be profitable to the State.

As a University we are interested in observing that the subject of education for the professions is receiving more and more attention from the public. There is an unmistakable drift of enlightened public opinion towards demanding a more complete education of the practitioners of law and of medicine than has hitherto been exacted in this country. How to secure the desired elevation of the standard of professional education is a problem, for which various solutions have been proposed.

I cannot but think that it would conduce greatly to this end if there were fewer schools, and if those really needed were constituent parts of universities. The number of law schools is perhaps not much in excess of what we need, and most of them are connected with some university. But there are certainly a good many superfluous medical schools, and a certain number of unnecessary theological schools. The increased facilities of communication by railway have removed the only argument which ever existed for many of the professional schools. Every one knows the history of the origin of not a few medical colleges. A half dozen physicians in some town imagine that if they can prefix the title Professor to their names and persuade a few students to hear them lecture, they will thus secure the best possible advertisement for themselves. As the fees are small, the shorter the course of lectures, the better for the professors. As they give for two short courses a diploma every whit as handsome as can be gotten from Harvard or Michigan in three long years, the students are as delighted as the professors. The country is speckled with these advertising establishments for ambitious physicians, who delude young men into the belief that after a few weeks' attendance upon lectures they have become fitted to practice a learned profession and to take the care of

men's lives into their hands. A few of these short-course schools have, it is true, a nominal connection with colleges, though really they are self-governing. With very few exceptions, the theological schools are dissociated from colleges or universities, even when they are in the same town with them, and in most cases college towns have not been chosen as the sites of divinity schools.

Now I believe that all these professional schools, including those meritorious medical colleges which have virtually an independent organization, would be far more profitable to their students, if they were really so incorporated into a vigorous university that they caught the spirit of its life. The danger of a young man who is pursuing special studies in one department of thought in an isolated school is that he takes on a certain one-sidedness of culture; there is an intellectual breeding in and in with his own sort, which leads to a lack of the best vigor. His horizon is not extended. He often has what may be called a mental provincialism. He fails to get a right view of the miscellaneous world into which he is going.

But give him access to museums and great libraries, not devoted to the illustration merely of his special studies, let him now and then hear the lectures of gifted professors on topics which he has had no opportunity to master; and his horizon will be broadened and his culture will be enriched. But above all, the influence of association with students who are working in other departments than his own, who are looking at many truths from a different point of view, will have a most healthful and liberalizing influence. It will help him cast down his idols of the cave. It will lead him to look all around a truth, and to judge how the great variety of men in the world will regard it. It will aid him in comparing the methods of investigation in his profession with the methods in the other professions. If the attrition with others rubs off many of the angularities of his mind, he will be none the worse for that.

To the theological student would the life of the real university be specially helpful. Such are the relations of scientific investigation and discussion to theology now that the divinity schools are constrained to secure a few special lectures from scientists or to establish professorships, in which the new aspects of religious and scientific truth are presented. But surely the investigations and prelections of the acknowledged masters of science like Pierce or Henry or Dana at a university would be generally more

helpful than the instructions of special apologists. If there is any one, who should be familiar with all phases of current thought, who should have felt the stir of the best intellectual life of the young men just coming on to the stage of action, it is the preacher. But too often the little retired seminary with its quiet life keeps him in a sort of monastic seclusion. When he emerges from it and is confronted with the bright, active minds of men trained in other professions, he is frequently surprised and puzzled. Could he have associated with them somewhat freely during the period of his professional study, he would have both received and imparted good.

The law student also is likely to profit much by the opportunity to hear lectures on History and the Political Sciences.

In short, the university life with its manifold stimulations must greatly aid every professional student in avoiding the perils of entering upon his work in life with either an exaggerated view of its relative importance or a narrow view of it as a trade, a mere means of earning bread. It sends him forth with a broader, larger, more vigorous manhood than he would be likely to acquire in an isolated school.

Again, the incorporation of professional schools into one university may be urged, because thus the proper elevation of the standard of admission and of work can be more easily secured. My remarks on this head are not applicable to divinity schools, where the standard of admission is quite high enough, but they do apply to law schools and medical schools.

It needs no argument to show that there is an inherent weakness in the organization, which leaves the pay of the professors dependent entirely on the receipts from students' fees. In such a case no reform, however desirable, can readily be made, if it tends to diminish the number of students, even temporarily. Average human nature even in professors is too weak to be iconoclastic at the sacrifice of bread and butter. So inclined are teachers, especially elderly teachers, to stick fast in the old ways, so averse are even institutions with large means to reduce their attendance, that progress even in universities (including our own) in raising the qualifications for admission and the grade of work in professional studies, has been much too slow. I need not say how much slower it has been in independent professional schools. At least one conspicuous medical school in New York, which in a moment of heroic courage recently undertook to lift

its standard higher, after a few weeks of experiment retreated hastily to its old position.

That the requirements for admission to nearly all of our medical students is now shamefully low—at most of them there are none at all—and that the grade of work done in them is too low, and that in most of them the course is far too brief, no intelligent man can doubt. It may be said that it is useless to elevate the standard of a few schools, while the great mass of them makes no change. But we may hope that the stimulating influence of the better schools will not be lost on the others. It is one of the cheering facts in respect to medical education that the schools which have acted bravely have not long suffered from lack of students, but have after a little regained their old numbers. This shows that public opinion is ripe for improvement. But the lead in that improvement must come in the main from schools, in which the salaries of the teachers are not dependent on the number of students in attendance.

Although it be conceded to Tertullian that Theology is “the Queen of the Sciences,” yet for obvious reasons which were apparent to the founders of the University we cannot have a theological school as a part of this institution. But I have long thought—and in holding this opinion I am simply concurring with my honored predecessors, Presidents Tappan and Haven—that it would have been of great advantage to the churches of the west and certainly no disadvantage to the University, if the religious denominations which desire divinity schools in this section of the Union had seen fit to plant them in this city near to us. We could have extended to them our hospitalities without inconvenience or expense, could have given their students and teachers access to our libraries and museums and some of our lectures, could have kept them in contact with University life, and could have doubtless drawn from them both scholarly and religious inspirations which we should have prized. Perhaps it is not too late for some of the Christian communions to think upon this subject. It is well known that at least two or three important religious bodies are considering the expediency of founding halls in which the students of their faith attending the University may live together in their own Christian home. Such a hall might, if its founders and patrons desired, easily become the germ or the predecessor of a school of theological instruction. Of course the University could have no further interest in any such school than that which comes from having a pleasant and edify-

ing neighbor, with which it could freely exchange courtesies. But we might well be gratified at seeing such neighbors settle near us.

The report of the Committee on Finance is hereto appended. Notwithstanding our large resources, the demands made upon our treasury by our varied work are so heavy that the greatest economy is absolutely necessary.

I am happy to report that the growth of the library has been greater than in any previous year since it was established. The increase has been 2,700 volumes and 479 pamphlets. The chief donors of books have been Mr. E. C. Hegeler and Hon. Philo Parsons. Owing to unexpected delay in procuring some of the materials for the new library building, the completion of it cannot be expected until several months hence. But when it is completed, no pains should be spared to make a large addition to our collection of books. Our library, admirable as has been the selection of books for it, is not worthy of the University. There can be no great University without a good library. Private munificence cannot furnish us so valuable aid in any other way as by placing at our disposal a handsome sum for the purchase outright of a large number of books, or still better perhaps by endowing us with a permanent fund which for all time to come shall yield its blessing to the University. The State cannot perhaps do its citizens a better service than by generously assisting in the building up of one library within its borders where they can come to find needed help in the investigation of any subject.

Dr. Frieze in his report last year was called to pay his tribute of respect to four eminent men who had died after leaving bright records as friends and servants of the University, Professor Watson, Governor Bagley, ex-President Haven and Professor Williams. Hardly was his report in type, before the news came from beyond the sea of the sudden death of the first President of the University, Dr. Henry P. Tappan. You have already spread upon your records your testimony to his distinguished abilities and to his eminent services to this institution. Dr. Frieze in his commemorative address delivered at Commencement has so admirably depicted his character and his career that I need not dwell upon them here. But this report of the year would be very incomplete, if it did not express however briefly the appreciation which we all feel of the great indebtedness of the University to him who in its youthful days gave it its form and its inspiration and who in a very emphatic sense

may be called the founder of the University which we know. The generation of the founders is indeed passing away. But it is gratifying to us that so many of them lived to see the reward of their toils in the present prosperity and strength of the institution to which they gave the best years of their lives. It stands and will ever stand as the proud monument of their devotion and wisdom.

Regent Duffield presented the following resolution, which was adopted :

Resolved, That the report of the President be accepted and printed in the minutes, and that one thousand extra copies be printed and bound in paper covers, for the use of the Board and of the University.

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

The President stated that several papers had reached his hands, which he suggested might be referred to appropriate committees for consideration. There being no objection, the papers took that course. He also stated that the report of the Dean of the School of Political Science had been prepared and was held subject to the pleasure of the Board.

Regent Duffield moved that the report be read by the Dean of that School. The motion prevailed.

At the close of the reading of the report, Regent Grosvenor moved that it be accepted and printed with the President's report, as an accompanying paper. The motion prevailed.

REPORT OF THE DEAN OF THE SCHOOL OF POLITICAL SCIENCE.

To the Honorable, the President and the Regents of the University of Michigan :

GENTLEMEN,—The Dean of the School of Political Science would beg leave to report that the School was organized in accordance with the provisions made by the Regents in June of 1881; and that the work of instruction was begun at the commencement of the ensuing University year. The time that

elapsed between the first announcement of the School and the opening of classes was too short to justify anticipations of any considerable increase, on account of the new school, of the number of students in the Academic Department of the University. It is also to be said that at the beginning of the year there was considerable uncertainty as to whether students of the School of Political Science might be admitted to other degrees than that of Doctor of Philosophy; and, until this question was settled, it was not thought wise to encourage students to transfer themselves from the courses in which they had previously been enrolled. But notwithstanding these facts it is gratifying to note that all the classes were attended by an encouraging number of students.

The following table, made out from the records, does not include the very considerable number of students who attended the lectures without desiring credit therefor; but embraces simply the number actually present at the final examinations:

FIRST SEMESTER.

NAME OF COURSE.	NO. OF STUDENTS.
GENERAL HISTORY OF ENGLAND from the accession of Henry VI. to the meeting of the Long Parliament. Assistant Professor Hudson-----	67
GENERAL HISTORY OF CONTINENTAL EUROPE from the Reformation to the French Revolution. Assistant Professor Hudson	60
CONSTITUTIONAL HISTORY OF THE UNITED STATES from the adoption of the Constitution to the Administration of President Jackson. Assistant Professor Hudson-----	30
THE ELEMENTS OF CONSTITUTIONAL LAW. Assistant Professor Hudson-----	24
THE POLITICAL HISTORY OF THE AMERICAN COLONIES to the Close of the Revolutionary War. Prof. C. K. Adams-----	65
THE HISTORY OF THE ENGLISH GOVERNMENT since the Close of the Napoleonic Wars. Professor C. K. Adams-----	67
HISTORICAL SEMINARY. Advanced Course in The Constitutional History of England. Professor C. K. Adams-----	13
THE ELEMENTS OF POLITICAL ECONOMY, including: Historical Development of the Science; Its Basis; Production; Exchange; and Distribution. Dr. H. C. Adams-----	60
ADVANCED POLITICAL ECONOMY, including: The Principle of Free Competition; Free Trade and Protection; Crises, Commercial Depression and Poverty; The Migration Question; The Transportation Question; and Social and Industrial Reforms. Dr. H. C. Adams-----	25

NAME OF COURSE.	NO. OF STUDENTS.
RIGHTS; including: Natural Rights; Civil Rights; Rights both Civil and Political; Political Rights; Rights of Denizens. Judge T. M. Cooley.....	13
SANITARY SCIENCE; including: Chemical Biology; Foods; Water and Air Supply; Supply of Fuel and Light; Ferments and Germs; Disposal of Decomposing Matter; Public Nuisances; Vital Statistics and influence of vocations on health; Meteorological Conditions of Health and Disease; Duties of Boards of Health and of Health Officers; and General Health Laws. Assistant Professor V. C. Vaughan.....	57

SECOND SEMESTER.

GENEAL HISTORY OF ENGLAND from the meeting of the Long Parliament to the Close of the Napoleonic Wars. Assistant Professor Hudson.....	62
HISTORY OF CIVILIZATION IN THE MIDDLE AGES. Assistant Professor Hudson.....	33
CONSTITUTIONAL HISTORY OF THE UNITED STATES since the Administration of President Jackson. Assistant Professor Hudson.....	32
THEORIES AND METHODS OF THE ENGLISH GOVERNMENT. Professor C. K. Adams.....	80
THE HISTORY OF POLITICAL AND SOCIAL INSTITUTIONS. Professor C. K. Adams.....	61
HISTORICAL SEMINARY: Political and Constitutional History of United States. Professor C. K. Adams.....	12
THE ELEMENTS OF INTERNATIONAL LAW. President J. B. Angell.	80
THE SCIENCE OF FORESTRY; including: Historical Development of the Science; Influence of Forests on Human Affairs; Control of Forests; and Forest Legislation in Europe and America. Assistant Professor Spalding.....	48

Two of the above-named courses,—the course in Rights and the course in Forestry—are worthy of especial note, not simply for the reason that they were given last year for the first time in this institution, but also from the fact, that, so far as is known, courses upon these subjects have never before been given in any American University. It cannot but augur well for the School that the subject of Political and Social Ethics from a practical and legal point of view should be given by so eminent an authority as Judge Cooley, as the foundation of his subsequent courses on Constitutional and administrative Law. The course on Forestry has naturally attracted much attention; and it is not a little singular that a subject of so much importance has hitherto been entirely neglected by our colleges and universities.

Within the past few years the necessity of some care of our forests has impressed itself upon the people of our country as never before. Their rapid disappearance in some parts of the land is a matter of the gravest consequence. Not only are vast economic questions directly involved in the destruction of timber, but, what is, perhaps, of even greater importance, if this destruction is not properly guarded against or counterbalanced by the judicious planting and care of trees, even our climate is in danger of being permanently changed. In this State our forests are a great source of wealth ; and there is no one of our industrial resources that is worthy of more careful study. We have recently had painful admonitions that the unwise cutting away of our forests may be attended with the most appalling consequences. The mere statement of these facts is enough to show that the subject is entitled to the most careful consideration. In the old world Schools of Forestry have long devoted themselves to a systematic study of the various ways in which the questions that now perplex us in regard to the care of forests are best to be met. As the fruit of studies carried on in these schools, and the consequent wise management of forests, Germany is much less likely to suffer in the near future from the want of the different kinds of useful woods, than is the United States. An important literature on the subject has grown up ; and, although it is not to be supposed that the methods adapted to European requirements can be transferred to America without essential modifications, yet it is certain that great advantage may be gained from a familiarity with the results of European study and experience. From the appropriation made a year ago for the School of Political Science, a considerable number of valuable works on the subject of Forestry have been placed in the University Library. But the subject must also be studied in the light of practical observation. It is gratifying to note that the establishment of the course in Forestry has already attracted the attention of the Commissioner of Agriculture, and that our School is likely to be the recipient of such favors as the Commissioner may have it in his power to bestow.

In addition to the courses of instruction given during the past year, several new courses will be given in the year to come. Arrangements have already been completed by which, without further expense to the University, courses will be given on the Principles of Finance ; on the Financial History of the United States ; on the History of Diplomacy ; on the History of Politi-

cal Ideas ; on Methods of Local Government ; on Theories and Methods of Taxation ; on Political Ethics ; on Social Science ; on the Historical Development of Educational Systems ; on the Economic Development of Mineral Resources ; and on Public Scientific Surveys. Thus it appears that the School enters its second year under favorable omens. Its establishment and the scope of its instruction have attracted much attention, and have called forth not a little favorable comment. The present number of students in the classes and the zeal with which they are entering upon their work, promise to justify the approving words with which the establishment of the School was so generously greeted.

Respectfully submitted,

C. K. ADAMS, DEAN.

UNIVERSITY OF MICHIGAN, Oct. 10, 1882.

Regent VanRiper stated that the property of the University loaned Professor J. B. Steere, under a resolution of the Board, had been returned in good order.

On motion of Regent Walker, the Board went into executive session. At the close of the executive session the Board resumed business in open session.

A communication from the Engineering Department was read by Professor Charles E. Greene, and discussed by other members of the Department.

On motion of Regent Shearer, the paper was laid on the table for the time.

Regent Grosvenor moved that the Board do now adjourn to 9 o'clock to-morrow, Wednesday, morning ; which was agreed to.



MORNING SESSION.

Wednesday, October 11, 1882.

The Board reassembled in the room of the President at 9 o'clock A. M.

Present—The President, Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

Regent Van Riper said Professor B. M. Cheever was present, and desired to address the Board on the condition and needs of his department, and moved that permission be granted. The motion prevailed.

At the close of the remarks of Professor Cheever, Regent Van Riper moved that the matter under consideration be referred to the Committee on Museum and School of Mines; which was agreed to.

On motion of Regent Walker, Regent Cutcheon was appointed to prepare the annual report of the Board to the Governor.

Regent Grosvenor moved that the annual report of the Board to the State Superintendent of Public Instruction, be prepared by Regent Duffield. The motion prevailed.

Regent Duffield submitted the following resolution, which was adopted:

Resolved, That the memorial to the Legislature be prepared by the Executive Committee, and reported to the next meeting of the Board.

Regent Walker, chairman of the Finance Committee, read the annual report of that committee, which is as follows:

REPORT OF THE FINANCE COMMITTEE.

Before presenting the statement of the receipts and expenditures for the past year, it has been thought proper to review for a moment the sources of income of the University. The funds of the University accrue from three principal sources:

- 1st. From the endowment of the United States.
- 2d. From appropriations by the Legislature for special and specific objects.
- 3d. From students' fees and charges. Small sums accrue from other sources, but not in such amounts or with such regularity as to be classed as a permanent income.

The endowment of the University originally came from the general government in a grant of lands the proceeds of the sale of which are in the hands of the State. On this the University

receives from the State interest at the rate of seven per cent. per annum. This interest is now nearly a fixed quantity and amounted in 1882 to \$38,398.47. A portion of the lands are still held on "part-paid certificates," and the irregularity of the payment of interest by these private holders, and the occasional surrender or forfeiture of these lands, cause the small variation of the sums received from this source. There is still due from the purchasers of University lands, upon "part-paid certificates," \$60,621.11, as appears by the records of the State land office. There remain unsold, of the lands granted by the general government, but 287.75 acres, as appears by a statement from the office of the Land Commissioner, dated May 1, 1882.

The Legislature of 1873, by act No. 32, provided that an annual tax of 1-20th of a mill on the dollar should be levied on all the property of the State and paid to the University as a "State Aid." The sum now annually received from this source is \$40,-500.

By legislative act No. 128, 1875, establishing the Homœopathic Medical College, the sum of \$6,000 was provided annually for the support of this department. These comprise all the items of income coming to the University from stated appropriations; large sums are however from time to time generously provided by legislative acts for special and specific objects.

The fees received from students have been frequently changed, and as they stand at present are as follows :

For Matriculation in the University by a resident of this State.....	\$10
For Matriculation in the University by non-residents.....	25
For Annual Tax in Literary Department for residents of Michigan.....	20
“ “ “ “ “ “ non-residents	30
“ “ “ Law Department for residents of Michigan.....	25
“ “ “ “ “ for non-residents.....	35
“ “ “ Medical Department for residents of Michigan.....	25
“ “ “ “ “ for non-residents.....	35
“ “ “ Homœopathic College for residents of Michigan.....	25
“ “ “ “ “ for non-residents.....	35
“ “ “ Dental College for residents of Michigan.....	25
“ “ “ “ “ for non-residents.....	35
“ “ “ Pharmacy School for residents of Michigan.....	25
“ “ “ “ “ for non-residents.....	35

The following are the charges for material, use of instruments, etc., in certain departments of work :

To Students in the Histological Laboratory.....	\$ 3
“ “ “ Medical Therapeutics, per course.....	1
“ “ “ the Microscopical Laboratory, per semester.....	3
“ “ “ Practical Anatomy, per semester.....	10

To Students in Surgical Anatomy, per semester.....	5
For Diploma Fees in all Departments.....	10
For Teacher's Certificates.....	1

The following deposits are made in advance by students as security for payment for materials to be used :

Students in Qualitative Chemistry, per semester.....	\$10
“ “ Qualitative Analysis, “	10
“ “ Quantitative Analysis, “	20
“ “ Pharmacy Preparations, “	20
“ “ Organic Analysis, “	5
“ “ Urine Analysis, “	10
“ “ Saliva Analysis, “	5
“ “ Toxicology	5
“ “ Physiological Chemistry.....	10
“ “ Assaying.....	5
“ “ Blowpipe Mineralogy	5

From the students in the Dental College there are received funds in payment of material used, etc., in their operating rooms and Laboratory.

From both Hospitals, also, there are received sums for the sale of medicines and appliances.

The State Board of Auditors, by law of 1881, reimburse the University for the board and expenses of certain destitute and dependent children sent to the Hospitals for treatment.

The miscellaneous resources of the University consist of:

- 1st. Interest on Bank account ;
- 2d. Anatomical material sold to other medical colleges in Michigan, etc., as provided by legislation of 1881 ;
- 3d. Sale of property.

The condition of the funds of the University as shown by the balance sheet and the estimates for the current year, make it apparent that some further changes must be made, either increasing the income or decreasing the expenses.

Your committee do not deem that any important increase can be made in the income of the University from students' fees ; they would, however, recommend that the scheme for fees in the Microscopical Laboratories as reported by the Committee in June last (see Regents' Proceedings, page 208,) be adopted.* A revision of the charges in the Chemical Laboratory would likely also add a little to the income from that source.

* The change was made October 11th, and the fee was fixed as above reported, at \$3.

Sundry changes in the duties and salaries of the various officers and employees of the University, as will be hereafter indicated, can be made to reduce somewhat the expenditure.

The methods pursued in the Laboratories requiring the deposit of a stated sum to apply on material used, should be extended to the Dental department. A system of coupon receipts, such as are used in the Laboratories, by which a student is at no time without a full receipt for all payments made, and the University at the same time has a perfect set of vouchers, should be introduced into all the departments. The system of accounting at the Chemical Laboratory by which the accounts in detail are kept by the Treasurer, can perhaps be shortened up so that the burden of the work will have to be done but once, and the Treasurer will be relieved of a large amount of detail work.

The record of *all* goods ordered should be kept at one office, so that the obligations outstanding can readily be ascertained.

When funds are appropriated by the Board for a specific object, the Secretary should be directed to keep an account of the same by crediting that amount to a separate account bearing a proper heading, and as goods are ordered or work performed for these specific objects, the account should be at once debited with the same, whether the bill is yet paid, or even presented, or not; and if the amount cannot be definitely ascertained, an approximate amount should be inserted, that all times the true condition of the funds may appear.

In presenting the annual report of the Treasurer to the Finance Committee, which we submit as the report of the Committee, we take great pleasure in certifying to the accuracy, clearness and amplitude of detail of the report, and to the thorough and able manner in which the work of that office has been done. The items have been all checked, and for each item a voucher in proper form was found. There are 1,604 vouchers. All the footings have been carefully checked.

The accuracy of entries of receipts from students, whether for admission fee, annual dues, laboratory expenses, practical anatomy, or diplomas, was checked by the tickets issued by the Steward. The entry of receipts from miscellaneous sources was in a majority of cases tested in the same way. The number of tickets examined was about 5,000, and the statement and tickets agreed throughout. For the items of miscellaneous receipts for which no tickets were issued by the Steward, other satisfactory evidence was found.

Careful examination of the stubs of the tickets issued by the Steward was made, to see that all were properly paid. Besides those of recent date outstanding, some fourteen were discovered that had not been presented to the Treasurer. The corresponding dues had not been paid. In several cases it is probable the sums due will yet be paid. A few students either left without going farther than to get the Steward's ticket, or did not take the courses indicated by the tickets, after making application for them.

The disbursement vouchers were carefully examined as to the classification of accounts, and no variation of importance from the classification intended was found.

This examination of the Treasurer's account in detail was made by Professor W. H. Pettee, at the request of and under the direction of the Committee, and was most carefully and thoroughly done.

The receipts of the treasury from the State were carefully compared with a statement of the same from the office of the Auditor General, and verified completely.

To the Finance Committee of the Board of Regents :

GENTLEMEN,—Herewith please find a statement of the receipts and expenditures for the fiscal year ending September 30, 1882 :

RECEIPTS.

Balance in Treasury October 1, 1881	\$ 7,262 78
Received from State Treasurer :	
For University Interest	38,398 47
“ State Aid, 1-20th mill Tax, Act 1873	38,250 00
“ Homœopathic Medical College, Act of 1875	6,000 00
“ “ “ “ “ 1881	2,000 00
“ College of Dental Surgery, “ “	9,000 00
“ General Library, “ “	2,500 00
“ University Hospital, “ “	3,500 00
“ Library Building, “ “	50,000 00
“ Mechanical Laboratory, “ “	1,000 00
“ Homœopathic Hospital, “ “	2,000 00
Received from Board of State Auditors for Board of Dependent Children, Act of 1881	663 25
From First National Bank, Ann Arbor, Interest	397 35
“ Balance, Dental Materials sold	689 08
“ Sale of Anatomical Material	573 50
“ Sale of Coal, School District No. 1, Ann Arbor	302 08
“ Errors in Vouchers	5 07
“ Sale of Medicines, etc., at University Hospital	343 85
“ “ “ “ Homœopathic Hospital	138 31
“ Loans	25,000 00

From Students' Fees, Laboratory Deposits, etc., as follows :

In Literary Department.....	\$21,255 00
In Department of Law	19,495 00
In Department of Medicine and Surgery.....	18,405 00
In School of Pharmacy.....	3,880 00
In College of Dental Surgery.....	3,775 00
In College of Homœopathy	2,485 00
For Deposits in Chemical Laboratory.....	10,744 70
For Deposits in Practical Anatomy.....	4,670 00
For Diplomas.....	4,427 00
For Deposits in Physiological Laboratory.....	273 00
For Deposits in General Chemistry	161 00
For Deposits in Microscopical Laboratory.....	146 00
Total.....	\$89,716 70

Less :

Students' Fees Refunded	\$2,061 00
Laboratory Deposits Refunded.....	1,463 91
Practical Anatomy, Deposits Refunded'.....	200 00
General Chemistry, Deposits Refunded.....	12 69
	<u>\$3,737 60</u>

Net Receipts..... 85,979 10

Total Receipts.....\$274,002 84

DISBURSEMENTS.

Paid Salaries of Officers, Professors, and Employees :

From General Fund	\$104,740 82
“ Homœopathic Medical College.....	6,675 00
“ College of Dental Surgery	6,300 00
“ University Hospital.....	675 00
Total amount paid for Salaries.....	118,390 82
For Current Expenses.....	42,389 35
“ Loans paid.....	25,000 00
“ College of Dental Surgery, Special.....	1,343 30
“ “ “ “ Advertising	211 25
“ Homœopathic Medical College, Special.....	1,103 29
“ Advertising “ “ “	205 75
“ University Hospital, Special.....	3,935 40
“ Steam Heating, “	2 53
“ General Library, “	2,168 23
“ Homœopathic Hospital, “	1,990 93
“ Library Building, “	42,612 85
“ Eye and Ear Ward, “	830 21
“ Mechanical Laboratory, “	2,500 00
“ Sewer, Special.....	2,565 50
“ Board of Dependent Children.....	634 68
Balance in Treasury, September 30, 1882.....	28,118 75

\$274,002 84

GENERAL FUND.

RECEIPTS.

Received from State Treasurer :	
For University Interest.....	\$ 38,398 47
For State Aid, 1-20th mill Tax, Act of 1873.....	38,250 00
Received from Loans at Ann Arbor Savings Bank.....	25,000 00
“ “ First National Bank, Ann Arbor, Interest.....	397 35
“ “ Balance of Dental Material sold.....	689 08
“ “ Sale of Anatomical Material.....	573 50
“ “ Coal sold School District No. 1, Ann Arbor.....	302 08
Errors in Vouchers.....	2 07
Transfer from University Hospital.....	337 50
Students' Fees, Laboratory Deposits, etc.....	85,979 10
Total Receipts.....	\$189,929 15

DISBURSEMENTS.

Balance overdrawn October 1st., 1881.....	\$ 665 71
Paid Salaries of Officers, Professors and Employees.....	104,740 82
“ Vouchers on Contingent Fund.....	5,069 11
“ “ “ Alterations and Repairs.....	6,448 57
“ “ “ Fuel and Lights.....	6,340 32
“ “ “ Grounds.....	189 40
“ “ “ Insurance.....	2,092 24
“ “ “ Postage.....	960 51
“ “ “ Engineering Department.....	512 88
“ “ “ General Library.....	1,900 93
“ “ “ School of Political Science.....	419 86
“ “ “ Law Library.....	231 18
“ “ “ Medical Library.....	277 09
“ “ “ Museum.....	660 92
“ “ “ Microscopical Laboratory.....	250 45
“ “ “ Chemical Laboratory.....	9,291 44
“ “ “ Anatomical Fund.....	2,726 51
“ “ “ Steam Heating.....	359 56
“ “ “ Ventilation.....	208 64
“ “ “ Special Appropriation, H. S. Frieze.....	265 50
“ “ “ Construction.....	119 51
“ “ “ Printing Calendar and Proceedings.....	1,337 17
“ “ “ Advertising Law Department.....	76 00
“ “ “ “ Medical “.....	258 15
“ “ “ “ School of Pharmacy.....	124 93
“ “ “ Department of General Chemistry.....	353 71
“ “ “ “ Physics.....	836 48
“ “ “ Astronomical Observatory.....	53 36
“ “ “ Physiological Laboratory.....	468 13
“ “ “ Furniture and Fixtures.....	452 10
“ “ “ Repairs on President's House.....	104 70
“ “ “ Loans paid Ann Arbor Savings Bank.....	25,000 00
Transfer to Museum Building.....	1,403 07
“ “ “ Mechanical Laboratory.....	1,000 00

Transfer to Homoeopathic Hospital Construction.....	1,053 40
Balance in Treasury September 30th, 1882.....	13,676 80
	<u>\$ 189,929 15</u>

SPECIAL FUNDS.

COLLEGE OF DENTAL SURGERY.

Balance in Treasury October 1st, 1881.....	\$ 616 19
Received from State Treasury.....	9,000 00
Total Receipts.....	<u>\$ 9,616 19</u>

DISBURSEMENTS.

Paid Salaries of Professors and Employes.....	\$ 6,300 00
“ Vouchers for Current Expenses.....	1,343 30
“ “ “ Advertising.....	211 25
Total Disbursements.....	<u>\$ 7,854 55</u>
Balance in Treasury September 30th., 1882.....	1,761 64

HOMOEOPATHIC MEDICAL COLLEEE.

Balance in Treasury October 1st, 1881.....	\$ 862 71
Received from State Tréasury.....	8,000 00
Total Receipts.....	<u>\$ 8,862 71</u>

DISBURSEMENTS.

Paid Salaries of Professors and Assistants.....	\$ 6,675 00
“ Vouchers for Current Expenses.....	1,193 29
“ “ “ Advertising.....	205 75
Total Disbursements.....	<u>\$ 7,984 04</u>
Balance in Treasury September 30th., 1882.....	878 67

UNIVERSITY HOSPITAL.

Balance in Treasury October 1st, 1881.....	\$ 1,721 38
Received from State Treasury.....	3,500 00
“ “ Sales of Medicine, etc.....	343 85
Error in footing Voucher.....	3 00
Total Receipts.....	<u>\$ 5,568 23</u>

DISBURSEMENTS.

Paid Salaries of Physician and Nurses.....	\$ 675.00
“ Vouchers for Current Expenses.....	3,935 40
Transferred to General Fund.....	337 50
Total Disbursements.....	<u>\$ 4,947 90</u>
Balance in Treasury September 30th, 1882.....	620 33

STEAM HEATING.

Balance in Treasury October 1st, 1881.....	\$ 2 53
Paid Voucher on same.....	2 53

MUSEUM BUILDING.

Balance overdrawn October 1st, 1881.....	\$ 1,403 07
Transferred to General Fund.....	1,403 0

GENERAL LIBRARY.

Balance in Treasury October 1st, 1881.....	\$ 82 68
Received from State Treasury.....	2,500 00
Total Receipts.....	\$ 2,582 68

DISBURSEMENTS.

Paid Vouchers for purchase of Books.....	\$ 2,108 23
Balance in Treasury September 30th, 1882.....	414 45

HOMOEOPATHIC HOSPITAL.

Balance in Treasury October 1st, 1881.....	\$ 1,149 56
Received from State Treasury.....	2,000 00
“ “ Sale of Medicine, etc.,.....	138 31
Total Receipts.....	\$ 3,287 87

DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	\$ 1,990 93
Balance in Treasury September 30th, 1882.....	1,296 94

LIBRARY BUILDING.

Balance in Treasury October 1st, 1881.....	\$ 2,086 80
Received from State Treasury.....	50,000 00
Total Receipts.....	\$ 52,086 80

DISBURSEMENTS.

Paid vouchers for construction.....	\$ 42,612 85
Balance in Treasury September 30, 1882.....	9,473 95

EYE AND EAR WARD.

Balance in Treasury October 1, 1881.....	\$ 918 61
Paid vouchers on same.....	830 21
Balance in Treasury September 30, 1882.....	88 40

MECHANICAL LABORATORY.

Balance in Treasury October 1, 1881.....	500 00
Received from State Treasury.....	1,000 00
Transferred from General Fund.....	1,000 00
Total receipts.....	\$ 2,500 00

DISBURSEMENTS.

Paid vouchers for construction and equipment.....	2,500 00
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SEWER.

Balance in Treasury October 1, 1881.....	\$ 2,444 50
Paid vouchers for construction.....	2,565 50
Balance overdrawn September 30, 1882.....	121 00

HOMŒOPATHIC HOSPITAL AND AMPHITHEATRE.

Balance overdrawn October 1, 1881.....	\$	1,053 40
Transferred from General Fund.....		1,053 40

BOARD OF DEPENDENT CHILDREN.

Received from Board of State Auditors.....	\$	663 25
Paid vouchers for board of said children.....		634 68
Balance in Treasury September 30, 1882.....	\$	28 57

RECAPITULATION.

Balances in Treasury September 30, 1882:

College of Dental Surgery.....	\$	1,761 64
Homœopathic Medical College.....	\$	878 67
University Hospital.....		620 33
General Library.....		414 45
Homœopathic Hospital.....		1,296 94
Library Building.....		9,473 95
Eye and Ear Ward.....		88 40
Board of dependent children.....		28 57
General Fund.....		13,676 80
	\$	28,239 75
Less overdrawn balance, Sewer.....		121 00
Total balance in Treasury.....	\$	28,118 75

In submitting the estimate of receipts and expenditures for the current year, the committee have two or three items to which they wish especially to call your attention :

1st. As to the propriety of estimating the receipt of \$15,500 from appropriations by the Legislature to commence January 1st. These items are, for the Dental College \$8,000; the University Hospital \$3,500; the Homœopathic Hospital \$2,000; and the Homœopathic Medical College \$2,000. Without these appropriations these Departments in our care must cease, and it is not to be supposed that after so carefully fostering these institutions and realizing such benefits from them as are apparent, they will cease to receive the fostering care of the Legislature.

2d. The estimates of expenditures are made quite in detail, and are thereby more readily examined, and should bear careful criticism.

3d. That in the estimates of disbursements, the debts for expenses of the current year already incurred are classified, and the balances due the special funds set forth as liabilities, thereby fully showing the condition of the funds as near as practicable.

ESTIMATES OF RECEIPTS FOR THE YEAR ENDING SEPTEMBER
30, 1883.

Balance in Treasury October 1, 1882.....	\$ 28,118 75
To be received from University Interest.....	38,000 00
“ “ “ State Aid, 1-20 mill tax.....	40,500 00
“ “ “ “ for Homœopathic College.....	6,000 00
“ “ “ “ Library Building.....	45,000 00
“ “ “ sale of Dental materials.....	500 00
“ “ “ “ Anatomical material to other Michigan Colleges.....	500 00
“ “ “ sale of medicine, University Hospital.....	340 00
“ “ “ “ Homœop. “.....	130 00
“ “ “ interest on bank account.....	250 00
“ “ “ Students' fees, Laboratory charges, etc.....	70,000 00
To be covered into Treasury, Commission on sales Dental material, 1881-2.....	1,092 96
	<u>\$230,431 71</u>

Estimating the grants of the Legislature the same as for the past two years, there will be received from this source

For the Dental College.....	\$ 8,000 00
University Hospital.....	3,500 00
Homœop. “.....	2,000 00
“ Medical College.....	2,000 00
	<u>\$ 15,500 00</u>
Total receipts estimated at.....	\$245,931 71

ESTIMATE OF EXPENDITURES FOR THE YEAR ENDING SEPTEMBER
30, 1883.

For salaries of Professors, Officers, and Employees.....	\$122,180 00
“ current expenses, Dental College.....	1,500 00
“ “ “ Homœopathic Medical College.....	1,500 00
“ “ “ University Hospital.....	4,000 00
“ “ “ Homœopathic Hospital.....	2,000 00
“ completion of Library building.....	54,473 95
“ alterations and repairs.....	3,000 00
“ Fuel and lights.....	8,500 00
“ Grounds.....	500 00
“ Insurance.....	2,000 00
“ the General Library.....	500 00
“ “ “ “ removal and incidental thereto.....	500 00
“ “ Medical “.....	300 00
“ “ Law “.....	300 00
“ “ School of Political Science.....	300 00
“ “ Annual Calendar and Regents' Proceedings.....	1,500 00
“ “ Postage.....	800 00
“ “ Anatomical Fund.....	2,800 00
“ “ Chemical Laboratory supplies.....	4,000 00
“ “ Microscopical Department.....	500 00
“ “ Mechanical Laboratory.....	5 00 00

For the Astronomical Observatory.....	1,000 00
“ “ Engineering Department.....	500 00
“ “ Department of Physics.....	500 00
“ “ Physiological Laboratory	500 00
“ “ Museum.....	500 00
“ Commencement expenses.....	1,000 00
“ Law “ “	150 00
“ Diplomas and filling same.....	600 00
“ Printing, other than Calendar and Regents' Proceedings.....	900 00
“ Lease of water privilege.....	50 00
Total	\$217,353 95
For sundry contingent bills, unpaid.....	\$ 903 69
“ balance of unexpended appropriation of June, 1882, for steam pipes, etc.....	169 80
“ unexpended balance of appropriation of June, 1882, for Professor of Physiology.....	742 85
“ bills incurred and goods ordered for Chemical Labor- atory	3,868 42
	\$ 5,684 76
“ Advertising, Department of Medicine.....	\$ 200 00
“ “ Law Department.....	200 00
“ “ Homœopathic Medical College.....	200 00
“ “ Dental College.....	200 00
“ “ School of Pharmacy	200 00
“ “ Literary Department	200 00
	\$ 1,200 00
For contingent expenses.....	\$ 3,000 00
Total expenditures estimated at.....	\$27,238 71
Balance forward 30th Sept., 1883	18,693 00
	\$245,931 71

SAMUEL S. WALKER,
E. O. GROSVENOR,
J. J. VAN RIPER,

Committee.

On motion of Regent Grosvenor, the report of the Finance Committee was adopted by the following vote:

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nay.—None.

The following paper, from Professor W. H. Pettee, was read by Regent VanRiper:

At a recent meeting of the Ann Arbor members of the committee appointed by the Board of Regents on the ninth of March, 1881, to consider the subject of new by-laws for the management of the University museums, there were present Dr. Frieze, Pro-

fessors Winchell, Steere, Pettee, Palmer, Prescott, Franklin, and Dr. Dorrance, who had been asked to represent the interests of the Dental College, in the absence of Professor Taft.

There was a lengthy interchange of views upon several topics connected with the designation and the management of the museums belonging to the University ; and it was found that in one or two particulars there was a difference of opinion, though for the most part there was practical unanimity.

The following are proposed as by-laws, which meet the approval of a majority of the members of the committee present at the meeting :

I. The various illustrative collections belonging to the University are arranged in the following museums :

- (1) The Museum of Fine Arts and History ;
- (2) The Museum of Natural History ;
- (3) The Museum of Applied Chemistry ;
- (4) The Museum of the Department of Medicine and Surgery ;
- (5) The Museum of the Homœopathic Medical College ;
- (6) The Museum of the College of Dental Surgery.

II. The President of the University shall have the general supervision of the relations of the museums to each other and to the University ; and he shall have power to decide all questions affecting these relations, his decisions to be subject to revision by the Board of Regents.

III. The Professors in charge of the instruction in Mineralogy, Geology, Botany, and Zoölogy, shall be the Curators of the corresponding collections in the Museum of Natural History ; the Professor of Zoölogy shall also have charge of the collections illustrating Archæology and Ethnology ; a Curator of the Museum of Fine Arts and History, and a Curator of the Museum of Applied Chemistry shall be appointed by the Board of Regents from the Faculty of the Department of Literature, Science, and the Arts ; and Curators of the Museums connected with the Medical and Dental Colleges shall be appointed by the Board from the respective Faculties.

IV. For the Museum of Natural History there shall be a Custodian appointed, who shall perform, under the direction of the Curators, the duties with which Custodians of similar Museums are ordinarily charged. He shall also, when required, assist the several Professors, who make use of the collections in the Museum at their lectures.

V. It shall be the duty of each of the Curators mentioned in III. to make an annual report to the President of the University on the condition of the collection or the Museum under his charge ; which reports or the substance thereof, shall be embodied by the President in his annual report to the Board of Regents.

VI. The Museums shall, as a rule, be open to the public daily, Sundays excepted, between the hours of 9 A. M. and 12½ P. M. ; and between 2 and 5 P. M. ; but any Curator may require his department to remain temporarily closed whenever, in his judgment, the interests of the University require it.

In behalf of the members present at the meeting.

Respectfully submitted,

W. H. PETTEE.

At the close of the reading of the paper Regent Van Riper submitted the following report, which was unanimously adopted :

To the Honorable Board of Regents :

GENTLEMEN.—The Committee on Museum, School of Mines, and Observatory, to whom the above matter was referred, beg leave to report favorably, and ask that the same be adopted by the Board.

J. J. VAN RIPER,

AUSTIN BLAIR.

October 11, 1882.

The following communication was read by the Dean of the Department of Medicine and Surgery :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF MEDICINE AND SURGERY, }
Ann Arbor, Oct. 10, 1882.

To the Honorable, the Board of Regents :

The Faculty of the Department of Medicine and Surgery respectfully request the following appointments :

As Assistant to the Chair of Pathology and Practice of Medicine, C. F. Dight, M. D., \$200.

To the Chair of Surgery, T. J. Sullivan, M. D., \$200.

To the Chair of Ophthalmology, etc., Harold Gifford, M. D., \$200.

To the Chair of Physiology, Willis E. Hallowell, M. D.

All of them at the salary formerly paid for such services.

The case of Dr. G. A. Hendricks is peculiar. He has been in the service of the Anatomical Department since 1876-7—over five years, *abstaining from other business* and devoting his entire time to the work, especially since he received the appointment of Curator of the Museum. His compensation has been very small—entirely inadequate for the faithful and skilled services rendered, and does not correspond with that which others receive in proportion to the time, labor, and skill expended.

It is the desire of his Principal—the Professor of Anatomy—whom he assists, that he should have the title of *Instructor in Anatomy*, and *Curator* of the Medical Museum, and that his salary be increased to correspond with his labors. It is the opinion of the Faculty that this should be done.

A letter from him stating his services is appended.

Respectfully submitted,

A. B. PALMER, Dean.

To the Dean of the Department of Medicine and Surgery of the University of Michigan :

The following is a brief history of my connection with the University : I graduated in June, '77. During the previous winter was asked by Dr. Herdman to return and assist him in the dissecting rooms. Was with him four years. During the first and second I not only worked in the dissecting rooms, but received, embalmed, and injected all the "subjects" used. The third and fourth being relieved of these latter duties, I took almost entire charge of the rooms. I inspected and made a weekly record of each student's work.

At a meeting of the Board of Regents in June, 1881, I was appointed Assistant to Professor Ford, and made Curator of the Medical Museum. My duties the past year. were to prepare and dissect the "subject" for his lectures, and in other ways assist him. To take out and return all preparations of the museum that were used by any of the Faculty. I met the classes seven hours each week for "quiz" and recitations. Made over 150 preparations for the museum. Several of these required, each, months of labor in their preparation. Made a number of large charts showing the distribution of the cranial nerves. During the three spring months I lectured three times a week to the First Year Students, and conducted a class in Comparative Anatomy.

During the winter I spent from three to five hours each week with Literary students who came to the Medical building to pursue their studies in Comparative Anatomy.

Very respectfully,

GEO. A. HENDRICKS.

ANN ARBOR, Mich., Oct. 6, 1882.

On motion, the paper just read was referred to the Committee on the Medical Department.

Professor J. W. Langley, by permission, made a brief statement to the Board, relating to the wants of his Department. The matter was referred to the Committee on the Chemical Laboratory, for consideration and future action.

Regent Van Riper read the following report :

To the Honorable, the Board of Regents :

The question of an appropriation to Dr. Byron M. Cheever, for the preparation of diagrams and charts, necessary for use in delivering his lectures, having been submitted to the Committee on Museum, School of Mines, etc., they beg leave to report that they have had the matter under consideration and recommend

that one hundred dollars be appropriated for that purpose, and that Dr. Cheever be authorized to expend for such diagrams and charts an amount not exceeding said sum of one hundred dollars.

J. J. VAN RIPER,
AUSTIN BLAIR,

Of Committee on Museum, School of Mines, etc.

The report was adopted by vote, as follows:

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nay.—None.

The following resolutions, submitted by Regent Walker, were adopted:

Resolved, That the students in the Dental Department be directed hereafter to make with the Treasurer a deposit of ten dollars, procuring first the certificate of the Steward for the same—the said sum to be placed to the credit of each student, to apply on the purchase of dental materials and apparatus—the deposit to be renewed in like amount when the first deposit is exhausted, and when closing the course the balance of such deposit to be repaid to the student in similar manner as to detail with the system of deposits in the Chemical Laboratory.

Resolved, That the Treasurer be directed to cover into the Treasury of the University the sum of \$1,092.96, commissions on sale of dental material, rent of room, and services of employees of the University assisting in same, for the year 1881–82, now in his hands, and that the Secretary and the Treasurer be directed to procure the proper vouchers for said transfer.

Resolved, That the Treasurer be and is hereby directed to balance the overdrawn account for building the sewer by transferring to the same the sum of \$121 from the General Fund.

The following resolution was also presented by Regent Walker, and was adopted:

Resolved, That the sum of twenty dollars be and is hereby appropriated to pay for the services of a clerk to the Finance Committee, employed to aid in checking the accounts, vouchers, etc.

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nay.—None.

The following communication from the Secretary of the Faculty of the Department of Literature, Science, and the Arts was read by Regent Duffield :

To the Honorable, the Board of Regents :

GENTLEMEN,—I have the honor to report that Mr. Albert Barlow Hale has been recommended to your Honorable Body by the Faculty of the Department of Literature, Science, and the Arts for the degree of Bachelor of Arts. (Mr. A. B. Hale had completed all the work required for a degree in February last, and had to go abroad, thus being prevented from taking his degree at the regular time.)

Respectfully submitted,

P. R. DE PONT, Secretary.

Regent Duffield submitted the following resolution, which was adopted :

Resolved, That the degree of Bachelor of Arts be and hereby is conferred upon Albert Barlow Hale, in accordance with the recommendation of the Faculty of the Department of Literature, Science, and the Arts.

Regent Duffield presented the following resolution, which was adopted :

Resolved, That the sum of five hundred dollars be appropriated for the use of the General Library, for the purpose of continuing the subscriptions to periodicals for the year 1883, and to pay for the necessary binding.

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

A communication from the Dean of the Homœopathic Medical College was received, and, on motion, it was laid on the table.

The following report was read by Regent Blair :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Executive Committee respectfully report, that after the Special Meeting of the Board in July the position of Assistant in General Chemistry, previously occupied

by Douglas A. Joy, became vacant in pursuance of the action of the Board at that meeting.

Upon the recommendation of Professor Langley, the Executive Committee appointed temporarily Charles K. McGee to fill the position of Assistant in General Chemistry.

It is desirable that a permanent appointment should be made at this meeting.

AUSTIN BLAIR,

Chairman Executive Committee.

On motion, the action of the Executive Committee was approved, and the appointment confirmed as stated, by the following vote :

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor Shearer, and Blair.

Nays.—None.

The following resolutions, presented by Regent Shearer, were adopted :

Resolved, That the unsettled matters with Andrew Wilkie, as contractor for the Museum Building, be referred to Andrew Climie, as Superintendent of said building, for adjustment, and for report of same to the Auditing Board. Also, that the President of the University be and is hereby authorized to give and receive receipts in said settlement.

Resolved, That the Auditing Board and Mr. Miller, attorney for the University, be and are hereby fully authorized to settle the so-called Beatty claims, with William Beatty, contractor for the Hospital Wards.

The vote on the adoption of the above resolutions was as follows :

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

Regent Shearer presented the following resolution, which was adopted :

Resolved, That the claims of Andrew Climie be and hereby are referred to the Committees on Finance and on Buildings and Grounds, for settlement.

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays.—None.

On motion, the Board took a recess to 2 P. M.

AFTERNOON SESSION.

The Board reassembled in the room of the President at 2 o'clock P. M.

Present—the President, Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Hon. E. D. Kinne by permission appeared before the Board and made a statement relative to the present condition of the “Williams Fund,” and offered some suggestions as to its future management. At the close of his remarks, Regent Grosvenor moved that the matter presented by Hon. E. D. Kinne be referred to the Executive Committee for examination, and that said Committee be requested to report at a future meeting of the Board. The motion prevailed.

Regent Duffield read the following report :

To the Honorable, the Board of Regents :

GENTLEMEN,—The Joint Committees, consisting of the Executive Committee and the Finance Committee, to whom was referred the report of Professors Winchell, Prescott and Harrington, on the use of microscopes in the University, would report in part as follows : That the recommendations

Page 208 (first paragraph) be adopted, viz : 1st. That a uniform charge at the rate of \$3 a semester be imposed ; 2. The appointment of an assistant in Microscopy and General Histology, at the salary of \$500.

The following resolutions were presented by Regent Walker :

Resolved, That the sum of \$300 be appropriated for the purpose of purchasing five microscopes for the use of the Professor of

Botany, and also that the further sum of \$150 be and is hereby appropriated for the purchase of new stands and eye pieces for six microscopes, in use by Mrs. Stowell.

Resolved, That Lorin Hall, M. D., be and is hereby appointed Assistant in Microscopy and general Histology, at a salary of \$500 per annum.

The vote on the adoption of the above resolutions submitted by Regent Walker was as follows :

Ayes.—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nay.—None.

Regent Grosvenor submitted the following resolution which was adopted :

Resolved, That the title of Dr. W. J. Herdman, be that of Professor of Practical and Pathological Anatomy and Demonstrator of Anatomy, provided his salary shall continue as at present, sixteen hundred dollars per college year.

Ayes.—Regent Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nay.—None.

Regent Grosvenor presented the following resolution :

Resolved, That Charles F. Dight, M. D., be, and hereby is appointed Assistant to the Chair of Pathology and Practice of Medicine, at a salary of two hundred dollars a year.

Resolved, That Thomas J. Sullivan, M. D., be and hereby is appointed Assistant to the Chair of Surgery, at a salary of two hundred dollars a year.

Resolved, That Harold Gifford, M. D., be and is hereby appointed Assistant to the Chair of Ophthalmology, at a salary of two hundred dollars a year.

The vote on the adoption of the above resolutions was as follows :

Ayes.—Regents Van Riper, Grosvenor, Shearer and Blair.

Nays.—Regents Walker and Duffield.

The following resolution was presented by Regent Grosvenor and was adopted.

Resolved, That the title of George A. Hendricks, M. D., be changed from "Assistant Demonstrator of Anatomy and Curator

of the Medical Museum," to "Instructor in Anatomy and Curator of the Medical Museum," and that his salary be six hundred dollars a year from and after October 1st, 1882.

Ayes.—Regent Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nay.—None.

Regent Walker submitted the following resolution which was unanimously adopted:

Resolved, That the President be requested to further correspond with Hon. Elias Leavenworth, of Syracuse, N. Y., in regard to his recent communications, saying to him that the Board of Regents of the University of Michigan will accept the trust indicated with the promise that the whole of the income of said funds which may accrue thereby shall be devoted to the purpose indicated, but that the Board can not guarantee any limit as to the rate or amount of such income.

On motion of Regent Van Riper, Dr. Henry S. Frieze was appointed Curator of the Museum of Fine Arts and History. Also, Dr. A. B. Prescott was appointed Curator of the Museum of Applied Chemistry.

Regent Grosvenor submitted a report from the Dean of the College of Dental Surgery, which was received and placed on file.

His Excellency, the Governor of the State of Michigan, Hon. David H. Jerome, was announced and cordially received by the Board of Regents, whereupon the Board took a recess of half an hour to visit and inspect the work being done on the new library building.

Regent Cutcheon appeared and took his seat.

At the close of the recess the Board resumed the business of the session.

Regent Walker submitted the following resolution which was adopted:

Resolved, That the sum of \$500 be and is hereby appropriated for the use of the Department of Physics, so much of said sum as may be required to be used in the purchase of models, maps, material and other uses of the department.

Ayes.—Regents Cutcheon, Walker, Duffield, Grosvenor and Blair.

Nay.—None.

Regent Van Riper presented the following resolution which was adopted.

Resolved, That W. H. Dorrance, D. D. S., be and he is hereby appointed Curator of the Museum of the College of Dental Surgery.

On motion the Board went into executive session. At the close of the executive session Regent Cutcheon read a paper signed by him and Regent Van Riper, relating to the action of the Board at its last meeting, in regard to Dr. D. A. Joy. The paper set forth in behalf of the Regents that had they been present, they should have felt bound to vote against the resolution which was adopted.

On motion the paper was received and ordered placed on file.

Regent Grosvenor submitted the following resolution:

Resolved, That when this Board adjourns, it adjourns to meet on Tuesday evening, January 2d, 1883. The resolution was adopted.

After a brief executive session on motion of Regent Van Riper, the Board adjourned.

H. D. BENNETT,
SECRETARY.

ADJOURNED MEETING.

JANUARY, 1883.

UNIVERSITY OF MICHIGAN, }
Tuesday, Jan. 2, 1883. }

The Board of Regents assembled in the room of the President pursuant to adjournment at 7:30 o'clock P. M.

Present, the President, Regents Walker, Duffield, Grosvenor, Shearer, Blair and Joy.

The meeting was called to order by the President. The minutes of the last meeting were approved as printed, on motion of Regent Walker.

The President stated that he had received several communications which he suggested should be referred to the appropriate committees of the Board. There being no objection, the papers took that course.

Reports of committees being in order, Regent Duffield stated that he had prepared the annual report of the Board of Regents to the State Superintendent of Public Instruction, whereupon Regent Walker moved that the report be read. The motion prevailed. At the closing of the reading of the report, Regent Walker moved that it lie on the table for the time. Agreed to.

The Board now went into executive session on motion of Regent Walker. The Executive Committee reported.

At the close of the executive session the doors were opened and business resumed in open session.

Regent Duffield submitted the following resolution which was unanimously adopted :

Resolved, That the thanks of the Board of Regents be tendered James McMillan for the munificent donation made to the University of money with which to purchase the famed Shakespearean Library of the Hon. E. H. Thomson, and to make additions to the same from time to time.

Regent Walker stated that a communication from Assistant Professor Beman had reached his hands, and moved its reference to the Committee on Literary Department. There being no objection, the communication took that course.

On motion of Regent Duffield the Board adjourned to 9 o'clock to-morrow, Wednesday morning.

MORNING SESSION.

Wednesday, Jan. 3, 1883.

The Board of Regents assembled in the room of the President at 9 o'clock A. M.

Present, the President, Regents Walker, Duffield, Grosvenor, Shearer, Blair and Joy.

Absent, Regents Cutcheon and Van Riper.

The following resolution submitted by Regent Duffield was unanimously adopted :

Resolved, That the thanks of the Board of Regents be tendered to Mr. George C. Mahon of this city, for his valuable gift of twenty-eight volumes of the Transactions and twelve volumes of the Proceedings of the Royal Irish Academy to the General Library of the University.

Regent Duffield submitted the following resolution which was adopted :

Resolved, That the title of W. W. Beman be and hereby is changed from "Assistant Professor of Mathematics" to "Associate Professor of Mathematics," without an increase of salary.

Regent Blair submitted the following resolution which was adopted :

Resolved, That the thanks of this Board be extended to Mr. L. E. Holden of Cleveland, Ohio, for the voluntary donation of fifty dollars to assist in payment of the expenses incurred in the publication of the Memorial Address of Prof. Frieze on the late Dr. Henry P. Tappan.

Regent Grosvenor stated that he had received a communication from Dr. Ellis of Detroit, and moved that it be received and placed on file. The motion prevailed.

Regent Shearer said that a communication from William Beatty had reached his hands. On his motion the paper was received and placed on file.

Regent Grosvenor read the two following communications from the Dean of the College of Homœopathy.

UNIVERSITY OF MICHIGAN,
HOMŒOPATHIC MEDICAL COLLEGE, }
Ann Arbor, Dec. 1882.

To the Honorable the Board of Regents:

GENTLEMEN,—The Faculty of the Homœopathic Department respectfully nominate W. H. Davis, M. D., for Resident Surgeon of the Homœopathic Hospital. Dr. Davis has been on duty since Oct. 1st, 1882. We request that his salary shall be \$300.

Respectfully,

T. P. WILSON, Dean.

UNIVERSITY OF MICHIGAN,
HOMŒOPATHIC MEDICAL COLLEGE. }
Ann Arbor, Dec. 1, 1882.

To the Honorable Board of Regents:

GENTLEMEN,—The Faculty of the Homœopathic Department respectfully ask that W. P. Polhemus, M. D., be appointed Assistant to the Chair of Principles and Practice of Medicine and Ophthalmology and Otology, at a salary of \$100 a year.

The faculty also beg to nominate Thomas H. Turner, M. D., to be Assistant to the Chair of Materia Medica and Clinical Medicine at a salary of \$100 a year.

Respectfully,

T. P. WILSON, Dean.

Regent Grosvenor submitted the following resolution which was adopted:

Resolved, That William H. Davis, M. D., be appointed Resident Surgeon to the Homœopathic Hospital for the term of one year, at a salary of \$300, and that W. P. Polhemus, M.D., be appointed Assistant to the Chair of Principles and Practice of Medicine for the term of one year at a salary of \$100. Also that Thomas H. Turner, M. D., be appointed Assistant to the Chair of Materia Medica for the term of one year at a salary of \$100, all in accordance with the recommendation of the Faculty as expressed in the foregoing communications.

Ayes.—Regent Walker, Duffield, Grosvenor, Shearer, Blair and Joy.

Nay.—None.

Regent Shearer reported the completion of the furnace at the Astronomical Observatory by C. Eberbach, and its probable acceptance on contract terms. He also presented the contract for its construction which was ordered to be placed on file.

On motion of Regent Shearer the Executive Committee were requested if practicable to submit a report at the next meeting of the Board, relative to the revision of the by-laws of the Board.

On motion of Regent Grosvenor the Board went into executive session. At the close of the executive session the doors were opened and the business of an open session was resumed.

The following communication was received from Prof. C. K. Adams, of the University:

To the President of the University.

DEAR SIR.—In the contract for the peal of bells ordered for the Library Building, it was agreed that Mr. Meneely should take the old bell with its hangings at full price in case the University should desire to dispose of them. I expect to put the new bells in their place in the tower without any cost to the University whatever; but, in case the fund in my hands should be insufficient to pay for the mounting, I should be glad to be authorized to supplement it from a part of the proceeds from the sale of the old bell. The balance, (and perhaps the whole,) will,

of course, be turned into the University Treasury, in case the Regents authorize the sale.

I make the suggestion with the understanding that the old bell is not to be taken down till the new ones are in working order.

Yours, etc.,

C. K. ADAMS.

Regent Joy moved that the request made by Professor C. K. Adams in the foregoing communication be granted.

Ayes—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

The following resolution, submitted by Regent Walker, was adopted :

Resolved, That the sum of \$300 be and is hereby placed at the disposal of the Library of the Medical Department, the said sum to include all expenditures already made during the current year.

Ayes—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Walker also submitted the following resolution, which was adopted :

Resolved, That the Professor of Mechanical Engineering be authorized to employ, under the direction of the President, such temporary skilled assistance as may be necessary in the Mechanical Laboratory, at an expense not to exceed \$12 a week.

Ayes—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Grosvenor read the following communication :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, January 3, 1883. }

To the Hon. E. O. Grosvenor, Chairman of Medical Committee :

SIR,—The position of Assistant Demonstrator of Anatomy having been made vacant by the resignation of Dr. Schuyler Graves, I desire to present the name of Dr. Hugo Lupinski, the present acting Assistant, for that position. The appointment of

Dr. Lupinski will be satisfactory to the other members of the Faculty of the Department of Medicine and Surgery.

Respectfully,

W. J. HERDMAN,

Prof. Path. Anat., etc.

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That Hugo Lupinski, M. D., be and is hereby appointed Assistant Demonstrator of Anatomy for the term of one year, his term of service commencing October 1st, 1882.

Ayes—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

On motion of Regent Grosvenor, the Board took a recess till 2 o'clock P. M.

AFTERNOON SESSION.

The Board reconvened in the room of the President at 2 o'clock P. M.

Present—the President, Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

The following resolution, submitted by Regent Grosvenor, was adopted :

Resolved, That the Auditing Board be authorized to purchase eighteen lathes for use in the Dental Laboratory, and cause them to be placed in position for use, provided the whole expense shall not exceed (\$270) two hundred and seventy dollars.

Ayes—Regents Walker, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the salary of Dr. U. D. Billmeyer, Assistant to the Professor of Clinical Dentistry, be increased from six hundred to eight hundred dollars for the current year.

Ayes—Regents Walker, Duffield, Grosvenor, Blair, and Joy.

Nays—None.

Regent Grosvenor announced the presence of Professor T. P. Wilson, Dean of the College of Homœopathy, and stated that he desired to address the Board relative to the needs of that College.

On motion of Regent Grosvenor, permission was granted and Dr. Wilson was heard.

On motion of Regent Walker, the Board went into executive session. At the close of the executive session, business was again resumed in open session.

The following communication was lodged in the hands of the President, was read, and, on motion, the resignation of Mr. Bennett was accepted.

To the Honorable, the Board of Regents :

GENTLEMEN,—I hereby tender my resignation of the office of Secretary and Steward of the University of Michigan, and respectfully request that it be made to take effect on and after the appointment of my successor.

Thanking you for the courtesy shown me during the discharge of official duty during the thirteen years of my connection with the institution, and with best wishes for its continued prosperity and success, I am

Most respectfully yours,

H. D. BENNETT.

ANN ARBOR, January 2, 1883.

The following communication was received, read, and on motion the resignation of Mr. Tolchard was accepted :

UNIVERSITY OF MICHIGAN,
TREASURER'S OFFICE,
Ann Arbor, January 3, 1883. }

GENTLEMEN,—Having determined to re-enter banking, I hereby tender my resignation of the office of Treasurer of this

University, to take effect February 1, 1883, and desire you to accept the same.

Yours very truly,

WILLIAM A. TOLCHARD.

Regent Blair submitted the following resolution, which was adopted :

Resolved, That in view of the vacancies occurring in the offices of Secretary and Treasurer of the University, Regents Grosvenor, Joy and Walker be appointed a special committee to recommend to the Board suitable persons to fill those offices, and to report such recommendations at as early a day as may be.

The following resolution was adopted :

Resolved, That when this Board adjourns, it adjourn to Tuesday, January 23, 1883, at 7 o'clock, P. M.

On motion of Regent Joy the Board adjourned.

H. D. BENNETT,

SECRETARY.

ADJOURNED MEETING.

JANUARY, 1883.

UNIVERSITY OF MICHIGAN,
Tuesday, January 23, 1883. }

The Board of Regents assembled in the room of the President at 7 o'clock p. m., pursuant to adjournment.

Present, the President, Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair, and Joy. Honorable L. D. Norris, having been duly appointed to fill the vacancy in the Board which had been caused by the resignation of Honorable B. M. Cutcheon (and having filed his oath of office), also appeared and took his seat.

The meeting was called to order by the President. On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

The President stated that he had received several communications of importance, and suggested that he be allowed to place them in the hands of appropriate committees. There being no objections, the papers took that course.

The President also stated that the memorial to the Legislature had been prepared, printed, and was ready to be placed in the hands of the several members of the Board for consideration and amendment. On motion, the paper took that course.

Regent Joy suggested that previous to the consideration of the memorial the Board might dispose of some other business which would come up for consideration, and stated that Dr. Ellis, of Detroit, desired to address the Board relative to the appointment of an additional Profes-

sor in the College of Homœopathy, and asked that permission be granted. On motion, Dr. Ellis, also Dr. T. P. Wilson, Dean, were heard.

Regent Van Riper stated to the Board that he desired Dr. W. J. Herdman, who was present, to address the Board briefly relative to matters both of a personal and public interest, and asked that he be heard. Permission was granted, and Dr. Herdman, in compliance with Regent Van Riper's suggestion, addressed the Board relative to his salary, also relative to changes suggested to the Legislature by some members of that body in the so-called anatomical law.

Regent Walker presented the following report of the Auditing Board, and asked that it be accepted and printed in the minutes. The motion prevailed, by the following vote :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

UNIVERSITY OF MICHIGAN, }
January 20, 1883.

To the Honorable, the Board of Regents :

The Auditing Board beg leave respectfully to make a report to you concerning the settlement of the so-called Beatty claims.

At your October meeting you authorized the Auditing Board and Mr. C. R. Miller, attorney of the University, to settle the claims of Mr. William Beatty against the University.

We and Mr. Miller had a prolonged conference with Mr. Beatty on the 19th inst. After a careful investigation it was decided to offer Mr. Beatty \$372.50 as payment in full of all his claims. He finally accepted the offer, and on receiving that sum signed a paper releasing the University from all claims whatsoever.

The Board desire to state that in their investigations they were greatly aided by Mr. Climie, who had given much attention to the claims.

Signed, JAMES B. ANGELL,
HENRY D. BENNETT,
WILLIAM A. TOLCHARD.

The following resolution, submitted by Regent Walker, was adopted :

Resolved, That the claim of C. R. Miller, attorney-at-law, for professional services rendered the University in the Beatty suit, amounting to \$74.50, be paid by the Treasurer, and that vouchers for said payment be taken in the usual form.

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

On motion of Regent Walker, the Board went into executive session. After spending some time therein, the doors were opened and the business of an open session was resumed.

Regent Grosvenor, chairman of the special committee appointed at the last meeting of the Board, to recommend suitable persons to fill the offices of Secretary and Treasurer, which were made vacant by the resignation of the incumbents thereof, submitted the following report :

To the Honorable Board of Regents :

GENTLEMEN,—The undersigned, the committee appointed January 3, 1883, to recommend to the Board suitable persons to fill the offices of Secretary and Steward and of Treasurer of the University of Michigan, would report that they have given careful attention to the subject, and now beg leave to recommend for the office of Treasurer Mr. Harrison Soule, of Jackson, Michigan, and for the office of Secretary and Steward, Mr. James H. Wade, of Jonesville, Michigan.

E. O. GROSVENOR,
JAMES F. JOY,
SAMUEL S. WALKER.

Ann Arbor, January 23, 1883.

Regent Joy moved that the report of the committee as to the appointment of Mr. Harrison Soule for Treasurer of the University be adopted. The motion prevailed by the following vote :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Grosvenor moved the adoption of the report of the committee as to the appointment of Mr. James H. Wade for the office of Secretary and Steward, his term of service to commence February 1, 1883, on condition of his compliance with the laws and by-laws of the Board in respect to executing a bond.

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Van Riper submitted the following paper:

**Right to Use Improvement in an Apparatus for Preserving
Birds' Eggs.**

To all Whom it may Concern :

Be it known that I, James Hobson, of the City of Ann Arbor, County of Washtenaw, and State of Michigan, for and in consideration of one dollar, to me paid by the Regents of the University of Michigan, do hereby license and empower the said Regents to manufacture and use in the Museum of the University of Michigan (and use such as are now in said Museum) the Improvement in Apparatus for Preserving Birds' Eggs, for which letters patent of the United States, No. 157,519, were granted to me December 8th, 1874, and to manufacture and use in the said Museum to the full end of the term for which said letters patent are granted.

Witness my hand and seal this 23d day of January, 1883.

Ann Arbor, January 23, 1883.

JAMES HOBSON. [L.S.]

Witness :

W. A. TOLCHARD.

ANDREW CLIMIE.

The following resolution, presented by Regent Van Riper, was adopted :

Resolved, That the thanks of this Board be tendered to Mr. James Hobson for the transfer to the University of the right to use his improvement in apparatus for preserving the eggs of birds.

The following paper was presented by Regent Van Riper :

Right to use Wire Bird and Mammal Perch.

To all whom it may concern :

Be it known that I, James Hobson, of the city of Ann Arbor, County of Washtenaw, and State of Michigan, for and in consideration of the sum of one dollar to me paid by the Regents of the University of Michigan, do hereby license and empower the said Regents to manufacture and use in the Museum of the University of Michigan, (and use such as are now in said Museum) the exhibiting bracket for stuffed animals for which letters patent of the United States, No. 249,936, were granted me Nov. 22nd, 1881, and to manufacture and use in the said Museum to the full end of the term for which said letters patent are granted.

Witness my hand and seal this 23d day of January, 1883.

Ann Arbor, Jan. 23d, '83.

JAMES HOBSON, [L. s.]

Witness :

W. A. TOLCHARD,
ANDREW CLIMIE.

Regent VanRiper submitted the following resolution which was adopted :

Resolved, That the thanks of this Board be extended to Mr. James Hobson for the transfer to the University of the right to use his valuable improvement in the right to his Bird and Mammal Perch.

Regent VanRiper read the following communication :

To the Honorable, the Board of Regents of the University of Michigan :

We the undersigned beg leave to present to the University of Michigan the following specimens in Natural History, now prepared and in the Museum of the University, a collection of birds, mammals, and reptiles, six hundred and eighty in number, (680) which are duly classified and named and entered upon the books of said Museum in their several classes. These specimens I have collected and prepared during the last seven years and I desire that they shall be kept as models or samples of good work in Taxidermy, and request that as such they may be put in a case in said Museum, set apart for said specimens.

Very Respectfully,

JAMES HOBSON, Taxidermist.

J. W. HOBSON,

Ann Arbor, Jan. 23d, '83.

Regent VanRiper submitted the following resolution which was unanimously adopted :

Resolved, That the thanks of this Board be extended to James Hobson, Taxidermist, and to James W. Hobson his son, for the gift to the University of six hundred and eighty specimens of birds and mammals, and that they be kept by the University as requested by the donors.

Regent VanRiper stated that he had received a communication from the Professor of Zoölogy, relative to the purchase of a collection made by Mr. Brigham, of Battle Creek, a former student of the University, consisting of bird skins, mammals, corals, and South American pottery. The following report was then read by Regent VanRiper :

To the Honorable Board of Regents :

GENTLEMEN.—The committee on the Museum, School of Mines, etc., report adversely as to the purchase of the Brigham collection at this time, and ask that the matter be laid upon the table for the present.

J. J. VAN RIPER, Chairman.

AUSTIN BLAIR.

On motion the report was adopted.

Regent Duffield submitted the following resolution :

Resolved, That the Librarian be requested to prepare a report relative to the mode of arrangement of the library preparatory to its removal to the new library building ; and submit said report to the committee on the library.

The motion was adopted.

The following resolution was presented by Regent Grosvenor :

Resolved, That a sum not exceeding one hundred dollars be and hereby is appropriated for material to be used for illustration by Prof. H. Sewall in the Department of Physiology.

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair and Joy.

Nays—None.

On motion of Regent Joy, Regent Norris was appointed a member of each of the following committees,

viz.: Executive Committee, Committee on Literary Department and Committee on Museum, School of Mines and Astronomical Observatory.

Regent Joy submitted the following resolution which was adopted:

Resolved, That the President be authorized to add to the memorial to the Legislature a request for the sum of \$3,000 for the Department of Physics.

The following resolution was presented by Regent Shearer:

Resolved, That the memorial to the Legislature be referred back to the President for amendment, and that 500 copies when completed be printed for the use of the Board.

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair and Joy.

Nays—None.

Regent Van Riper presented the following resolution:

Resolved, That Professor W. J. Herdman and Professor George E. Frothingham be requested to visit the Legislature during the session, if in the opinion of the President it be deemed necessary, in order to protect the interests of the University in respect to the existing anatomical law, so called.

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair and Joy,

Nays—None.

The following resolution submitted by Regent Van Riper was adopted:

Resolved, That if the members of the Legislature or committees thereof shall fix a day for visiting the University, that the Secretary give written notice thereof to the members of this Board who are requested to be present so far as possible on such day to meet with such members of the Legislature.

On motion of Regent Grosvenor, the Executive Committee was authorized to furnish the incoming Secretary and Steward such temporary aid or assistance as the case might require.

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, Blair and Joy.

Nays—None.

Regent Grosvenor suggested that Regent Shearer be requested to act with the Executive Committee in securing the necessary aid asked for in the memorial to the Legislature this day adopted by the Board which was agreed to.

On motion the Board adjourned.

H. D. BENNETT,

SECRETARY.

MARCH MEETING.

1883.



UNIVERSITY OF MICHIGAN, }
Tuesday, March 27, 1883. }

The Board of Regents assembled in regular session in the room of the President at 10 o'clock A. M.

Present, the President, Regents Norris, Duffield, Grosvenor, Shearer, Blair and Joy.

The meeting was called to order and opened with devotional exercises by the President.

On motion of Regent Grosvenor the minutes of the last meeting were approved as printed.

Several communications which had been received by the President, were at his suggestion referred to appropriate committees.

Regent Duffield presented a report relative to the dedication of the New Library Building, which was accepted and on motion of Regent Grosvenor was laid on the table for the time.

The following communication from the Dean of the Law Faculty was presented by Regent Blair :

To the Honorable, the Board of Regents of the University of Michigan :

The Faculty of Law respectfully report that the following named persons have completed the course of instruction in the Law Department and passed all the required examinations, and they therefore recommend that the degree of Bachelor of Laws be conferred upon them :

James Ransom Adsit,
 William Guthrie Alexander,
 David Menzies Alston,
 William Belmont Anderson,
 Henry Andre Armstrong,
 Joseph Bailey, Jr.,
 William Barrett,
 Elijah Barton,
 S. Willard Beakes,
 George Christian Beis,
 George Luther Bennett,
 Louis Berk,
 John W. Billmire,
 Samuel Cooper Blake,
 Harlow Horace Bonniwell,
 Allen Douglas Boyer,
 Thomas Henry Truro Bray,
 Abraham Lincoln Brick,
 George Francis Brownell,
 David Calvin Burrey,
 William Sorency Byram,
 Hermon A. Carmer,
 Eugene Carmichael,
 Newton Babb Carskadon,
 LeRoy Julius Chapman,
 Frank Jacobs Cheek,
 Jay Comstock,
 Nathaniel Parrish Conrey,
 William Cowing,
 John Robert Coyle,
 William Radcliffe Clark,
 Elliot John Clements,
 Will Dickie Crosby,
 Hugh Dale, Jr.,
 Waters Davis,
 Albert DeCamp,
 Arthur Carter Denison,
 Gerrit John Diekema,
 Charles Sumner Dodge,
 Jeremiah Donahue,
 Peter Leavens Dorland,
 Oliver Noviel Downs,
 Edgar Hampton Eckert,
 John Snyder Evans,
 Charles Wesley Franklin,
 Ezra Haldeman Frisby,
 William Armour Gardner,
 Edward Fuller Giddings,
 Frank Morton Gilmore,
 John Henry Grant,
 Edward Stuart Grauel,

William Albert Griffith,
 George Sutherland Grimes,
 Claus Jeremiah Gunderson,
 Hally Haight,
 Will Washington Hannan,
 William Edmund Harrington,
 John Whitfield Harris,
 Henry Haskell,
 Isaac Walton Hassill,
 Austin Hawley,
 John Francis Hayes,
 Edward Dingley Hearne,
 Patrick Henahan,
 Charles Wesley Hill,
 Thompson Robert Hollowell,
 Henry Halleck Hosmer,
 Frank Wilson Hull,
 John Gilmore Hutchison,
 Champe Jameyson,
 William Louis January,
 Albert Westlake Johnston,
 Perry Magee Keen,
 Arthur Keithley,
 Virgil K. Kellogg,
 William Ansel Kinney,
 Isaac Dickenson Laferty,
 Frank Willis Lamey,
 Charles Lawyer, Jr.,
 Frank Fuller Leland,
 Charles August Lindbergh,
 Charles Edgerton Linton,
 Harry Albert Lockwood,
 Thomas Jefferson Logan,
 Rawson Taft Lovell,
 David Rose Lusher,
 Jeremiah Lynch,
 Thomas Jefferson Lynch,
 Lemon Aaron Lyon,
 William Armstrong Marsh,
 William Collett McCune,
 Willis McDowell,
 Philip Richard McKernan,
 James Campbell McLaughlin,
 Charles Orville Miller,
 Jenner Eugene Morse,
 Edgar Eugene Moss,
 Theron Manly Nesbitt,
 Edward Thomas Noonan,
 Willis Emerson Noxon,
 James Buchanan O'Connor,
 Horace Mann Oren,

Gibson David Packer,
Theodore Benedict Pape,
Elmer Ward Parkhurst,
Sidney James Parsons,
Martha Kellam Pearce,
Isaac Pearsons,
Willis Barnes Perkins,
Edward Whitfield Peterson,
Leonidas T. Pilchard,
Marcus Pollasky,
Francis Henry Register,
Jacob Harlin Reigner,
Will Myron Reynolds,
Thomas Albion Roberson,
Fred Austin Robinson,
Woodfin D. Robinson,
Frank E. Robson,
Eugene Avery Roby,
Arthur Raymond Rood,
John Jay Ryan,
William Hynes Savidge,
William Ellsworth Schofield,
Adolphus Hawxhurst Searing,
George Elmer Shaw,
Russell Easton Shepherd,
Charles Moulton Sherman,
Frederick William Smith,

Michael Joseph Smith,
William Snearer, Jr.,
Herbert Montgomery Snow,
Charles Henry Stanley,
Richard Schiller Steiner,
John Franklin Steward,
Mattie Strickland,
John Sinclair Tait,
Benjamin Franklin Taylor,
John Eugene Thomas,
Morton Thompson,
Frank Trussell,
William Tone Valentine,
Alfred Robert Voss,
William Ogden Wallace,
Frank G. Warden,
Dwight G. F. Warner,
Edward M. White,
Elbert C. Wicks,
Andrew Jackson Williard,
Charles Moreman Wilson,
Walter Smith Wixson,
Frank H. Woodcock,
Colin Wilson Wright,
Charles I. York,
Robert Young.

Respectfully submitted for the Faculty,

T. M. COOLEY, Dean.

Ann Arbor, March 27, 1883.

Regent Blair presented the following resolution which was adopted :

Resolved, That the degree of Bachelor of Laws be and is hereby conferred upon the several persons named in the report of the Law Faculty as having completed the course of instruction in the Law Department and passed all the required examinations as recommended by said report which accompanies this resolution.

The following report, relative to the Williams Professorship Fund, was read by Regent Blair :

To the Honorable Board of Regents :

The Executive Committee to whom was referred the communication of the Committee of the Society of the Alumni of the University, of which Hon. E. D. Kinne is chairman, on the subject of the " Williams Professorship Fund " respectfully report :

That they have had the subject under consideration and have had further conference with the committee of the society of the Alumni, and after such consideration and conference have agreed unanimously on the adoption of the accompanying preamble and resolution :

WHEREAS, it has been represented to this Board by and on behalf of the Society of the Alumni of the University of Michigan, by a committee thereof, that a considerable fund has been raised by the Society and is now in its hands and under its control, called the "Williams Professorship Fund," which the said Society desires should be permanently invested for the uses and purposes indicated by its name and intended by the donors; Now therefore be it

Resolved, by the Board of Regents of the University of Michigan ; that this Board is willing to accept the said fund in trust for the uses and purposes indicated and to invest and hold the same as a distinct and separate fund, the annual income of which shall be applied to the support and maintenance in the University of the Williams Professorship of Physics, to be continued and established by this Board so soon as the said fund shall, with the full authority and assent of the Society, be transferred to and vested in the Board; that the said professorship will be under the control of the Board as all other professorships are, but its name shall never be changed or the fund diverted to any other purpose whatever; that the fund shall be invested in some secure and permanent manner and only the annual income thereof shall be used and the principal shall never be reduced in amount and this shall apply as well to all sums that may hereafter be added to the fund by the Society or other persons, as to those already accumulated.

On motion the report, preamble and resolution were adopted.

The following resolution was presented by Regent Norris :

Resolved, That the Executive Committee be instructed to report to the next regular meeting of the Board, a compilation and proposed revision of the By-Laws and Rules of Order, for the government of the Board and the several departments.

That such compilation and revision shall have for its outline: 1st, The printed pamphlet compiled by the President ; 2d, The same pamphlet with notes and amendments, added during the term of service of Acting President Frieze ; 3d, The manuscript report of the sub-committee of the Executive Committee ; 4th, The subsequent legislation (if any) of the Board ; 5th, Any additions deemed wise by said Executive Committee.

That said report shall be printed and kept standing in type, and twenty days before the next regular session three copies shall be mailed to the address of each Regent. That said Exec-

utive Committee, or any sub-committee, or member, having any portion of this work assigned to him, or them, may employ a stenographer and copyist at the expense of the Board.

The resolution was adopted by the following vote :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer and Blair.

Nay—None.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be requested to obtain from the Ann Arbor Gas Light Company, the best terms that can be had for furnishing gas for the University buildings and grounds, and report fully at the next meeting of this Board.

Regent Blair moved that the Board take a recess till 2½ o'clock P. M. Agreed to.

AFTERNOON SESSION.

The Board of Regents re-assembled in the room of the President at 2½ o'clock P. M.

Present—the President, Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Absent—Regents Walker and VanRiper.

Regent Grosvenor presented a report from the Treasurer, showing the financial condition of the University at the present date. Accepted and placed on file.

The following resolution, submitted by Regent Joy, was adopted :

Resolved, That it be the sense of the Board that the President open a correspondence with Henry W. Rogers, with a view to his acceptance of a professorship in the Law Department of this University, and with the understanding that if he will accept, his appointment to such position shall be made at the next (June) meeting of the Board.

The vote on the resolution was as follows :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

Regent Joy read the following communication :

ANN ARBOR, March 28, 1883.

To the Honorable, the Regents of the University of Michigan :

GENTLEMEN.—I respectfully solicit your acceptance of my resignation of the *Tappan Professorship* in the Law Department of the University of Michigan, which I hereby tender.

During my connection with the Department the associations and duties of the position have brought me constant and unalloyed pleasure, for which I owe many thanks to the Regents, the Faculty and the students, and for which I beg to express my most hearty acknowledgements.

With ardent wishes for the continued prosperity and future growth of our University, so dear to the hearts of all of us,

I am, gentlemen,

Most respectfully,

Your obedient servant,

ALPHEUS FELCH.

On motion of Regent Joy, the resignation of Hon. A. Felch was accepted.

Regent Joy presented the following resolutions and recommended their adoption :

Resolved, 1. That it is the sense of this Board that the course in Law should be extended so as to embrace, from and after this college year, two terms of nine months each.

2. That the Faculty of Law be directed to submit to the Committee on the Law Department in time to enable them to report upon it at the June meeting of the Board, a scheme which shall embody such changes as may be needful to give due effect to the view above expressed.

The vote on the adoption of the above resolutions was as follows :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

Regent Grosvenor presented the following resolution :

Resolved, That \$300, or so much thereof as may be required, be appropriated for rebinding books and pamphlets preparatory to the removal of the same into the new library building.

The vote on the adoption of Regent Grosvenor's resolution was as follows :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

Regent Norris submitted the following resolution, which was adopted :

WHEREAS, The recent action of the Board in accepting the resignation of Treasurer Tolchard and appointing Treasurer Soule his successor has created a necessity for the examination and passing of the accounts of the retiring Treasurer, with intent that he may be released from the obligations and trusts of his late office, and his successor enter upon the same with full knowledge of its situation and duties ; therefore,

Resolved, That the Finance Committee be instructed to prepare and present to this Board such statement and report of the condition of the books, accounts, vouchers, and cash transactions of the outgoing Treasurer as will enable the board to vote intelligently upon the question of his release and discharge. That said Committee bring in the resolution necessary to give their report effect.

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That George A. Hendricks, M.D., Assistant Demonstrator of Anatomy and Curator of the Medical Museum, be paid a salary at the rate of \$800 a year, from and after April 1, 1883.

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair and Joy.

Nays—None.

Regent Joy read the following communications :

UNIVERSITY OF MICHIGAN,
ANN ARBOR, March 14, 1883. }

To the Honorable Board of Regents of the University of Michigan :

GENTLEMEN.—I hereby tender my resignation of the position of " Assistant in Qualitative Chemistry" in the Chemical

Laboratory, the same to take effect March 30, 1883, or as soon thereafter as my successor is appointed.

Very respectfully,

JOSEPH F. GEISLER.

To the Honorable Board of Regents of the University of Michigan :

I hereby submit to your honorable body my resignation as Assistant in Qualitative Chemistry, to take effect April the first, 1883.

Respectfully,

OSCAR TEXTOR.

On motion of Regent Joy, the resignations were accepted.

Regent Joy also read the following communication :

ANN ARBOR, MICH., March 26, 1883.

To the Honorable, the Board of Regents :

GENTLEMEN,—I desire to ask for leave of absence during the next collegiate year (1883-4), that I may go to Europe for the purpose of study. I wish to prepare myself for the better fulfillment of my duties.

Very respectfully,

T. J. WRAMPELMEIER.

On motion of Regent Joy, leave of absence was granted Mr. T. J. Wrampelmeier during the next college year, salary to cease during the time of his absence.

The following communication from Professor A. B. Prescott, Dean, was read by Regent Joy :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF PHARMACY, }
March 24, 1883.

To the Honorable, the Board of Regents :

GENTLEMEN,—The resignations of Joseph F. Geisler, Assistant in Qualitative Chemistry, and Oscar Textor, Assistant in Quantitative Analysis, both to take effect on the 31st inst., are presented to you at this time. These assistants have rendered most satisfactory service in the Chemical Laboratory, and have had the esteem of both students and teachers. This is the third year of Mr. Geisler's service in teaching, and the second year of Mr. Textor's. We are fortunate in having retained them so long. They are now called to places of professional usefulness, where we believe they will do credit to analytical chemistry, and to the University, of which they are graduates. Mr. Geisler is asked

by a house extensively engaged in the manufacture and importation of foods, in New York, to conduct an analytical laboratory for the detection of adulterations and the determination of the quality of food products. This appears to be the first instance in this country of the opening of an analytical laboratory for foods, within the business of a commercial house. It is an initiatory movement following the execution of the law for the suppression of adulterations in the State of New York, and gives a promise especially hopeful at this time. Mr. Textor, the assistant of Professor Cheever, is offered a responsible position, for the analysis of iron ores, iron, and steel, in one of the large iron works of Cleveland, where his accuracy and experience will give good results. I beg leave to recommend the acceptance of both these resignations.

To fill the vacancy caused by the resignation of Mr. Geisler, I desire to recommend the appointment of Lucius L. Van Slyke, Ph. D., from his present duty as Assistant in the Chemical Laboratory, to be Assistant in Qualitative Chemistry, the appointment to take effect on April 1, 1883, and to continue through the year 1883-4, and (if deemed proper) to be with the same salary granted to Mr. Geisler, namely, five hundred dollars per annum.

To fill the vacancy caused by the resignation of Mr. Textor, I would recommend the appointment of Julian W. Baird, A.B., (now in studies for the degrees of A. M. and Ph. C.), to be Assistant in Quantitative Analysis, the appointment to take effect on April 1, 1883, to continue to the end of the fiscal year 1883-4, and to receive the salary of the previous occupant, two hundred and fifty dollars per annum. In this recommendation Professor Cheever unites with the undersigned.

To fill the vacancy which may be made by the advance of Mr. Van Slyke, I beg leave to recommend the appointment of Franklin T. Babbitt, of the present senior class in the Department of Pharmacy, to be an Assistant in the Chemical Laboratory, the appointment to take effect on April 1, 1883, to continue to the end of the fiscal year 1883-4, and with the salary previously granted for the same duty, one hundred and thirty dollars per annum. In this recommendation I have the concurrence of Professor Johnson, in whose work the duty of this assistant belongs.

Also in your hands at this time is the request of Mr. Theo. J. Wrampelmeier, Instructor in Analytical Chemistry, for leave of absence for the collegiate year 1883-4, for purposes of study in

Europe. I willingly support this request, coming from an earnest devotion to good learning. Mr. Wrampelmeier's services will be greatly missed, but arrangements to supply his principal duties can be proposed to you at the meeting of your Honorable Body in June.

Respectfully submitted,

ALBERT B. PRESCOTT.

Regent Joy presented the following resolutions :

Resolved—1. That Lucius L. Van Slyke, Ph. D., be and hereby is appointed Assistant in Qualitative Chemistry, at a salary of five hundred dollars a year, for the period beginning April 1, 1883, and continuing to the end of the University year 1883-4.

2. That Julian W. Baird, A. B., be and hereby is appointed Assistant in Quantitative Analysis, at a salary of two hundred and fifty dollars a year, for the period beginning April 1, 1883, and continuing to the end of the University year 1883-4.

3. That Franklin T. Babbitt be and hereby is appointed Assistant in the Chemical Laboratory, at a salary of one hundred and thirty dollars a year, for the period beginning April 1, 1883, and continuing through the University year 1883-4.

The three foregoing appointments are made in accordance with the recommendation of the Dean of the Faculty of the School of Pharmacy.

The vote on the above resolutions was as follows :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nays—None.

Regent Grosvenor read a communication from Messrs. Morphy, Miller, and Meyer, barristers and solicitors, of Toronto, relative to one D. L. Smith, deceased, which was ordered to be placed on file.

Regent Norris moved that the report read by Regent Duffield, Chairman of the Library Committee, be accepted and printed in the minutes. The motion prevailed, and the report is as follows :

To the Honorable, the Board of Regents :

The Library Committee of the Regents would report in reference to the dedication of the Library Building as follows :

That they have had frequent correspondence with the Library Committee and the Librarian, that a sub-committee of three consisting of Professors Demmon, Pettie and the Librarian was appointed to devise a programme for the occasion, for submission to the Library Committee of the Board of Regents. In this report they assume that the building will be in the hands of the Building Committee, completed by the contractor, and turned over to this committee by Commencement week, but inasmuch as we learn from the Chairman of the Building Committee that it will not be completed by the time supposed, the report is to this extent subject to further correction and amendment previous to final adoption.

FOR THE EXERCISES.

1. A speech by Regent Shearer, Chairman of the Building Committee, in which he shall give a brief history of the appropriation for the building and of its erection, and then formally deliver it over to the Board of Regents.
2. A speech from a member of the Board accepting the building and sketching its possible future, by the President of the Board, Dr. Angell.
3. A brief history of the collection of books that constitutes the Library of the University, showing its increase in numbers and usefulness, by the Librarian, R. C. Davis.
4. A dedicatory ode by Regent Duffield.
5. An address from Mr. Winsor, Librarian of Harvard College.
6. Prayer and benediction by Bishop Harris.

The exercises to be interspersed with music from the band in attendance.

They also regarded favorably the idea of participation in the dedicatory exercises by the graduating class by planting an ivy, etc., but with their present knowledge they were unable to make any definite recommendation.

The first question for the Board to consider, is whether it will not be desirable, if it be not absolutely necessary, to change the time of the dedication from the Commencement week, to the first week in the fall term.

When the dedication is made, it would seem proper according to all similar services, that the edifice should be completed, accepted, and furnished, and every volume be in its proper place, so that in every room the Library would speak for itself.

Your Committee also report as the result of their conference and correspondence with the same committee, the following as the *classification* of the books on the shelves of the new building :

On the first floor the general Dictionaries, Encyclopædias, and Periodicals, and History and English Literature; History occupying Range 1; English Literature, Range 2; distributing the books over the entire space, leaving vacant shelves according to the anticipated increase.

On the second floor, Range 1; Greek Language and Literature, Latin Language and Literature, Modern Languages and Literature, Comparative Philology, Philosophy, Theology, Useful Arts and Fine Arts. In Range 2: Science and Medicine.

On the third floor. Range 1: The class called Society, Political Economy, Government, Politics, Education, etc., and the Parsons Library. In Range 2: Public Documents of the United States and Michigan.

It is also the sense of this committee that the newspapers should be excluded from the reading-room, in which the committee of the Board of Regents do most heartily concur and recommend that the same be adopted.

Your Committee also recommend an appropriation not exceeding \$300 for repairing and rebinding a large number of books which have been gathered out from the rest, as utterly unfit to be placed in the new Library until they are in a better condition.

GEORGE DUFFIELD.

March 26, 1883.

The following report from Honorable T. M. Cooley, of the Department of Law, was submitted by Regent Joy, and on his motion it was accepted and ordered printed in the minutes:

To the Honorable, the Board of Regents of the University of Michigan:

The undersigned, Dean of the Department of Law, respectfully reports:

That at a former meeting of the Board the subject of an extension of the Law course was referred to the Faculty of Law in conjunction with the Committee of this Board on the Law Department, for consideration and report.

That the Faculty met with the Committee in the city of Detroit and exchanged views, without being able to agree in any definite conclusion, though the desirability of an extension of the course seemed to be generally concurred in.

That under the circumstances mentioned the undersigned is not authorized to express in this report the sentiments and opinions of those with whom he consulted, but he deems it not improper, that he should express separately his own views.

That these views are that the Law term should be extended to cover two terms of nine months each, with such changes in

the details of instruction and management as shall bring the instructors into more intimate relations with the students and enable them to have more oversight of individual work and investigation than is now possible. What these changes should be the Faculty and the Board should determine, and the undersigned does not deem it either proper or important that he should assume to indicate them.

All which is respectfully submitted,

T. M. COOLEY.

Dated, March 27, 1883.

Regent Joy presented the following resolution, which was adopted:

Resolved, That a sum, not exceeding three hundred dollars, be, and hereby is appropriated, for the purpose of defraying the expenses of examining students for admission to the University at Chicago and other places, as the Faculty of the Literary Department may direct.

The following was the vote:

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

Regent Blair presented the following resolution, which was adopted:

Resolved, That a sum, not exceeding one hundred dollars, be, and hereby is appropriated, for the purpose of printing announcements of the University system and Post-graduate work in the Department of Literature, Science, and the Arts.

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

The following resolution, submitted by Regent Shearer, was adopted:

Resolved, That Henry C. Adams, Ph. D., be and hereby is appointed Lecturer on Political Economy for one semester of the next academic year, for the sum of eleven hundred dollars.

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

The following resolution, submitted by Regent Blair, was unanimously adopted :

Resolved, That the thanks of this Board are due and are hereby tendered to Prof. O. C. Marsh, of Yale College, for a copy in plaster of the unique specimen of "Pterodactyl from the lithographic slates of Bavaria," also for "the Hesperornis," presented to the University by him.

Regent Blair read a communication from Professor W. H. Pettee, announcing the purchase of a goniometer with funds furnished by E. C. Hegeler, Esq., of LaSalle, Ill. The communication was accepted and placed on file.

Regent Joy moved that leave of absence be granted Dr. Benjamin F. Cocker for the balance of the present academic year, and that his salary be continued.

The motion of Regent Joy prevailed by the following vote :

Ayes—Regents Norris, Duffield, Grosvenor, Shearer, Blair, and Joy.

Nay—None.

On motion of Regent Norris the Board took a recess to 7½ o'clock P. M.

EVENING SESSION.

The Board re-assembled in the room of the President at 7½ o'clock P. M.

Present a full Board, except Regents Walker and Joy, (Regent VanRiper appearing in his seat).

Regent Blair presented the following resolution, which was adopted unanimously :

Resolved, That the Board of Regents of the University in accepting the resignation of Professor Alpheus Felch from the Law Faculty, desire to express their deep sense of the long and valuable services he has rendered to the University, and their regret that he does not feel able longer to continue in its service.

The Board hereby tender to Gov. Felch its earnest wish that the evening of his days may be as peaceful and happy as his long career has been eminent and useful.

The following communication was read by Regent Grosvenor:

UNIVERSITY OF MICHIGAN,
COLLEGE OF DENTAL SURGERY,
ANN ARBOR, March 27, 1883. }

To the Honorable, the Board of Regents:

GENTLEMEN,—The following named persons having fulfilled the requirements, are recommended by the Faculty of this Department for the degree of Doctor of Dental Surgery; viz.:

Frederick Hornby Berry,	Arthur St. Clair Graham,
Charles Blair Blackmarr,	Will Harman Hall,
Wilbur Buzzell,	Stanley Read Holden,
Maximilian Edward Chapalay,	Frank Alexander McAuley,
Bernard Henry Conlin,	Charles Cornelius Newcastle,
William Walter Curtis,	William Franklin Overholser,
Walter Erving Dadmun,	Byron Smith Palmer,
Marshall Bidwell Dennis,	Lyman Trumbull Phillips,
William Otis DePuy,	Perley Andrews Powers,
George Lewis Fox,	Ozora Pierson Sutherland,
John William Gale,	John Brinkerhoff Van Fossen.
Charles A. Gallagher,	

Respectfully submitted,

J. TAFT, Dean.

Regent Grosvenor presented the following resolution, which was adopted:

Resolved, That the degree of Doctor of Dental Surgery be and hereby is conferred upon the persons named in the communication just read, in accordance with the recommendation of the Faculty.

Regent Duffield read a communication from Professor George S. Morris, asking leave of absence for and during the first semester of the next academic year, and then submitted the following resolution, which was adopted:

Resolved, That the request of Professor George S. Morris for leave of absence during the first semester of the next academic year, for the purpose of delivering lectures at the Johns Hopkins University, and for other work at the East, be granted upon the condition as proposed by Professor Morris, that he release to the University a half year's salary.

Regent Grosvenor presented the following resolution which was adopted :

Resolved, That the Auditing Board be requested to revise the list of insured property, and report at the June meeting a valuation of the several buildings, and recommend an amount of insurance to be carried on each.

Regent Duffield presented the following resolution :

Resolved, That the sum of fifty dollars be and hereby is appropriated for additional help in the general library from the present time to July 1st, 1883, also that the sum of one hundred and fifty dollars be appropriated to defray the expenses of taking down, transferring and setting up the entire collection.

The vote on the adoption of the above resolution was as follows :

Ayes—Regents Norris, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nay—None.

On motion of Regent Van Riper the Board adjourned to 9 o'clock A. M., to-morrow, Wednesday morning.



MORNING SESSION.

The Board of Regents reassembled in the room of the President at 9 o'clock A. M.

Present—the President, Regents Norris, Duffield, Van Riper, Grosvenor, and Shearer.

The following report was read by Regent Grosvenor, and on his motion was accepted and ordered printed in the minutes :

To the Honorable, the Board of Regents :

GENTLEMEN : In obedience to the instructions of the Board embodied in the following resolution, viz. :

“ *Resolved*, That the Finance Committee be instructed to prepare and present to this Board such statement and report of the condition of the

books, accounts, vouchers, and cash transactions of the out-going Treasurer as will enable this Board to vote intelligently upon the question of his release and discharge, and that said committee bring in the resolution necessary to give their report effect;”—

The Finance Committee beg leave to report that the out-going Treasurer, Mr. Wm. A. Tolchard, has placed in their hands a full and detailed statement of the receipts and disbursements of his office from the first of October, 1882, to the thirty-first day of January, 1883, inclusive, the latter date being the last day of his holding the position of Treasurer of the University.

The items in the statement above referred to have all been carefully checked, verified, and compared with the vouchers, or with the stubs remaining in the books kept by the Steward.

The Committee are satisfied that the statement is correct in every particular. For every item of disbursement there is a proper voucher on file; and for every item of receipt, satisfactory evidence of its correctness has been presented. The cash balance remaining in Mr. Tolchard's possession, amounting to \$16,867.54, has been paid over to the incoming Treasurer, Mr. Soule, and has been receipted for by him. The committee have found the books and accounts to be in admirable condition.

For the items of receipts and disbursements, reference may be made to Mr. Tolchard's statement, which is herewith presented to the Board.

E. O. GROSVENOR,
Acting Chairman of Finance Com.

Absent—Regents Walker, Blair, and Joy.

Regent Grosvenor presented the following report from the late Treasurer, and asked that it be printed in the minutes, which was agreed to:

To the Finance Committee of the Board of Regents:

GENTLEMEN,—Herewith please find a statement of the receipts and disbursements of the Treasury from October 1, 1882, to January 31, 1883, inclusive.

RECEIPTS.

Balance in Treasury October 1, 1882.....	\$ 23,118 75
From State Treasurer:	
For University Interest.....	17,622 60
State Aid, 1-20th Mill Tax.....	10,125 00
Library Building.....	30,000 00
Homœopathic Medical College.....	8,000 00

From Board of State Auditors :	
For Board of Dependent Children.....	189 14
From First National Bank :	
For Interest on Treasurer's Account.....	386 00
From Sale of Dental Material.....	1,092 96
" Sale of Anatomical Material	178 20
From Metropolitan Insurance Company :	
For balance premium returned on cancelled Policy.....	15 85
From Toledo, Ann Arbor & Grand Trunk R. R. Co. :	
For overcharge on Car of Coal.....	9 20
From H. D. Bennett, rebate on Coal contract, M. C. R. R. Co.....	334 61
Reduction in price of Early English Society Publications.....	3 00
Sales of Medicines and Appliances at University Hospital.....	124 46
" " " " Homœopathic Hospital.....	129 73
Error in Voucher for Library Building.....	10
From Students' Fees :	
Law Department.....	\$6,380 00
Literary "	5,705 00
Medical "	3,350 00
Dental "	1,085 00
Pharmacy "	1,145 00
Homœopathic Medical College.....	860 00
Chemical Laboratory Deposits.....	3,421 74
Practical Anatomy "	2,360 00
Histological Laboratory "	303 00
Microscopical "	141 00
General Chemistry "	120 00
Sales of Dental Material.....	1,538 00
	<hr/>
	26,408 74
	<hr/>
Total Receipts	\$122,738 34

DISBURSEMENTS.

Paid salaries in General Fund.....	\$ 54,640 00
" " " Dental College.....	2,250 60
" " " Homo. Medical College.....	3,350 00
" " " University Hospital.....	750 00
	<hr/>
Total salaries paid.....	\$ 61,990 00

Paid vouchers as follows :

On Contingent Fund.....	\$ 1,428 27
" Alterations and Repairs.....	1,636 33
" Fuel and Lights.....	3,702 57
" General Library.....	84 14
" Chemical Laboratory.....	4,781 40
" Mechanical "	45 70
" Grounds.....	63 05
" Physics	17 82
" Steam Heating.....	550 48
" Law Library	125 50

On Advertising Medical Department.....	104 00
“ “ School of Pharmacy.....	37 50
“ Histological Laboratory.....	29 85
“ Anatomical Fund.....	1,016 49
“ Insurance.....	1,245 20
“ Astronomical Observatory.....	421 14
“ Furniture and Fixtures.....	149 00
“ Engineering Department.....	10 90
“ Botanical Laboratory.....	303 65
“ School of Political Science.....	35 25
“ Postage.....	228 28
“ Construction.....	313 64
“ Medical Library.....	152 13
“ Museum.....	136 47
“ Physiology.....	643 43
“ Microscopical Laboratory.....	161 95
“ University Hospital.....	1,152 86
“ College of Dental Surgery.....	264 52
“ Homœopathic Hospital.....	760 01
“ Homo. Med. College.....	286 06
“ Advertising Dental College.....	140 82
“ General Library.....	423 19
“ Advertising Homo. Med. College.....	79 50
“ Eye and Ear Ward.....	58 60
“ Library Building.....	19,948 26
“ Board of Dependent Children.....	217 71
“ Sale Dental Material.....	1,050 00
“ Regents' Expenses Paid.....	221 45
“ General Chemistry.....	196 10
“ Students' Fees Refunded.....	1,228 00
“ Laboratory Deposits “.....	429 58 — \$ 43,880 80
<hr/>	
Total Disbursements.....	\$105,870 80
Balance paid incoming Treasurer.....	16,867 54
<hr/>	
	\$122,738 34

Very respectfully submitted,

W. A. TOLCHARD,

Retiring Treasurer

Regent Grosvenor submitted the following resolution, which was adopted :

Resolved, That the sum of ten dollars be and hereby is appropriated to pay for clerical assistance to the Finance Committee, rendered necessary in checking the accounts and vouchers from October 1, 1882, to February 1, 1883, to make settlement with W. A. Tolchard, the former Treasurer.

The vote on the above resolution was as follows :

Ayes—Regents Norris, Duffield, Van Riper, Grosvenor, and Shearer.

Nays—None.

The following resolution, presented by Regent Grosvenor, was adopted :

Resolved, That the thanks of this Board are hereby given to M. S. Smith & Co., of Detroit, for the escapement-model they have presented to the Astronomical Department of the University, and to their able chief of the watch department, Mr. A. T. Hill, for his labor in adapting the same to class-room use.

Regent Shearer read a communication from Honorable A. Felch and others, relative to granting the privilege of making a connection with the University sewer at a point east of the Cornwell place, so-called.

On motion of Regent Norris, the matter was referred to the Committee on Buildings and Grounds, and said Committee was requested to submit a report relative to the subject at the June meeting of the Board.

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That when this Board adjourns, it adjourn to attend the Commencement exercises of the Department of Law, also the exercises of the College of Dental Surgery, both of which occur to-day.

On motion of Regent Norris, the Board adjourned.

JAMES H. WADE,
SECRETARY.

JUNE MEETING.

1883.



UNIVERSITY OF MICHIGAN, }
June 26, 1883. }

The Board of Regents assembled in regular session in the room of the President at 10 o'clock A. M.

Present, the President, Regents Walker, Duffield, and Shearer. There being no quorum present, the Board adjourned to 2 o'clock P. M.



AFTERNOON SESSION.

The Board of Regents reassembled in the room of the President at 2 o'clock P. M. Present, a full Board except Regents Norris and Joy.

The meeting was called to order and opened with devotional exercises by the President.

On motion of Regent Grosvenor the minutes of the last meeting were approved as printed.

Several communications which had been received by the President, were at his suggestion referred to the appropriate committees.

The report of the Auditing Committee on the matter of the insurance on the property of the University was presented, and on motion of Regent Grosvenor was referred to the Committees on Buildings and Grounds and on Finance jointly.

Regent Walker presented and read an amendment to the By-Laws governing the duties of the Secretary and Steward which by consent was laid upon the table.

A communication in writing was received from Henry Wade Rogers accepting a Professorship in the department of Law in the University in accordance with the action of the Board of Regents, at a meeting held March 27th, 1883.

On motion of Regent Grosvenor the communication was accepted and placed on file.

Regent Duffield read the memorial of Professors E. Jones, A. H. Pattengill, W. W. Beman and A. Hennequin, relative to an increase of salary. Also the memorial of Professors Olney, Prescott, D'Ooge, Langley, and others, asking that the pay of Professors and Assistant Professors be restored to their former condition. On motion of Regent Shearer the first request was referred to the Executive and Finance Committees, and on motion of Regent VanRiper the second request took the same course, and the whole matter was made the special order for to-morrow morning at 9 o'clock.

Prof. C. K. Adams presented the following communication :

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN: In the spring of 1882 President White of Cornell University volunteered to be one of three or four persons to place a peal of bells in one of the towers of the new Library Building. "Find two or three persons to join me in the matter," said he, "and we will put four or five bells in place without cost to the University." This suggestion was acted upon. Two brief letters were enough to bring favorable responses. The requisite money was put at my command; and I received direction to make a selection of bells.

In the course of the summer I visited New York and learned that Robbins Battell, Esq., of that city would be my best adviser for the object I had in mind. Mr. Battell was temporarily absent; but he generously responded to every inquiry I addressed to him, and, still further, with great courtesy he volun-

teered to visit Ann Arbor to give me the opportunity of a personal interview. The result of our conference was the opening of a correspondence with the bell founders. Meneely & Co. of West Troy, The Clinton H. Meneely Bell Company of Troy, William Blake & Co. of Boston, and Levesin Van Aerscoot of Louvain, Belgium.

Of all musical instruments, a group of bells is probably the most difficult to select. The sound of a bell consists of not less than six individual tones, more or less distinct to an acute and cultivated ear; and the quality of the note emitted depends upon the harmonic adjustment of these several tones. No science can prescribe the exact conditions by which this adjustment can invariably be secured; and no art seems able to correct a defective adjustment when once a bell has been cast. A perfect peal would consist of a group of bells in which all these harmonic conditions were perfect in every bell, and in which all the bells were in perfect musical accord with one another. These conditions are so difficult of fulfillment that there is probably not a peal in the world in which they are perfectly realized. A close approximation to these conditions is what gives the especial charm to some of the famous bells of Europe.

After a somewhat extended correspondence with founders in Europe and America, it was decided to give the order to the Clinton H. Meneely Bell Company at Troy, New York. Two visits to the founders were made, one in company with Mr. Battell, and one in company with Professor C. B. Cady, of our School of Music. In the visit for final inspection we examined the chime in Albany, cast by the Clinton H. Meneely Company, as well as the chimes in Buffalo, one of which is the largest and probably the most satisfactory in America. Professor Cady is of the opinion that the bells cast for this University, though not quite perfect when judged from a standard of ideal excellence, are more nearly in tune than were the bells of any of the chimes we visited. The acquaintances of Professor Cady need not be reminded that he is not accustomed to find musical perfection.

The bells are tuned respectively to G, F, E^b, B^b, and E^b—a succession which provides for the striking of the so-called Cambridge quarters besides the strike of the hour on the large bell. The bells range in weight from 210 to 3,071 lbs.

On the large bell are two inscriptions. That on the east side is the following:

UNIVERSITATI MICHIGANENSIIUM

A B

IACOBO I. HAGERMAN

EDVINO C. HEGELER

ANDREA D. WHITE

DONATA

MDCCCXXXIII.

I

On the opposite side is inscribed :

BONARUM ARTIUM

RERUMQUE

HUMANARUM AC DIVINARUM

STUDIOSOS

CONVOCAMUS.

The University is indebted not only to the generosity of the givers, but also to the technical knowledge and the unstinted interest and courtesy of Mr. Battell.

In fulfillment of instructions from the donors and in their behalf, I now present these bells to the University. Through the years to come may they speak out their own words:—call together those who are studious of all good things both human and divine.

C. K. ADAMS.

On motion of Regent Shearer, the President was requested to tender the sincere thanks of the Regents to Messrs. J. J. Hagerman, E. C. Hegeler, and President Andrew D. White, for the present of a peal of bells for the new Library building, and also to acknowledge their indebtedness to Professor C. K. Adams for his services in securing the bells from the manufacturers, and placing them in the bell tower.

Professor C. K. Adams presented and read the following :

UNIVERSITY OF MICHIGAN,
Ann Arbor, June 26, 1883. }

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN,—A little less than a year ago I received a letter containing money for the purchase of books to be used by students of history in this University. The letter contained the following sentences :

"I give you this on one condition which is *absolute*; you must not name the giver. You can order the books you want most, and ask the advice of no one. The money is for your department only. I hope to do more if things go right with me. If things financial come about as I hope, I will send more money for more books. If they can be kept together where students can have access to them, it will please me. I like the idea of a kind of historical laboratory."

With the money thus provided I have been able to purchase and place in the University Library somewhat more than fourteen hundred volumes. Keeping in mind the phrase "historical laboratory," I have thought it wise to select such books as seemed to me most needed by our students in carrying on the work of historical investigation. The Colonial Records, the collections of the several State Historical Societies, the most important State Histories, and the New England Historic Genealogical Register, have been added to the materials already at our command for the study of American History. For researches in English History the most important purchases have been The Annual Register in 124 volumes, Rymer's *Fœdera* in twenty volumes, and Hansard's Debates in 185 volumes. On the history of France, besides a considerable number of works designed to assist in the study of French political and administrative methods, the new acquisitions include the great collection of "*Memoires*" by Petitot et Monmarqué, in 131 volumes. In German complete sets of Von Sybel's *Historische Zeitschrift*, the *Preussische Jahrbücher* and *Unsere Zeit* are perhaps the most worthy of note. Nearly two hundred volumes have been procured to aid in the study of administrative methods in Europe and America. A very considerable collection has also been brought together for the better study of the governments of our cities.

This generous contribution promises to grow into something even more extensive in the future. I beg, therefore, to call the attention of your honorable Board to the wish expressed in the letter of the giver, and to add the expression of a hope that you may find a way to comply with his suggestion.

I have the honor to be

Very respectfully yours,

C. K. ADAMS,

Professor of History.

On motion of Regent Walker, the paper just read was ordered placed in the archives of the University, and the President was requested to convey to the donor (through Professor Adams) the thanks of the Board.

Regent Blair stated that, as the Associate Professors asking an increase of salary were now present, he moved that they be heard on that subject. The motion prevailed, and Professors E. Jones and Pattengill addressed the Board.

Regent Grosvenor read a communication from Dr. C. F. Dight, resigning his positions as Secretary of the Faculty of the Department of Medicine and Surgery and Assistant to the Professor of Pathology and Practice of Medicine and Clinical Medicine, to accept a Professorship in the Syrian Protestant College at Beirut, Syria. On motion of Regent Grosvenor, the resignation of Dr. Dight was accepted.

Regent Duffield presented and read the following communication from the Secretary of the Faculty of Literature, Science, and the Arts:

To the Honorable, the Board of Regents:

GENTLEMEN:—By the direction of the Faculty of the Department of Literature, Science and the Arts, I have the honor to report that the persons whose names are here given are recommended for the degrees indicated:

BACHELOR OF SCIENCE.

[COURSE IN MECHANICAL ENGINEERING.]

Frank Merrill Dunlap.

BACHELOR OF SCIENCE.

[COURSE IN CIVIL ENGINEERING.]

William Henry Brenton.

John William Payne.

Loomis Eaton Chapin.

Job Tuthill.

George Harlan Chipman.

Isaac Osborne Walker.

BACHELOR OF SCIENCE.

[COURSE IN GENERAL SCIENCE.]

Edmund West Eede,

Emma Smith.

BACHELOR OF LETTERS.

Annette Esther Burton, Mary Elizabeth Hunt,
Mary McNeil.

BACHELOR OF PHILOSOPHY.

John J. Abel,	Harry Garnsey Ohls,
Hattie E. Ailes,	William James Olcott,
Lafayette Seavey Berry,	Theodore Wing Peers,
William Clarence Braisted,	Alice Porter,
Grace Darling,	Carman Newcomb Smith,
Charles Emerson Goodrich,	Kittie Van Harlingen,
Henry Addison Mandell,	Christine Louise Voigt,
Robert Graves Morrow,	Clara Weir,
Thomas Azro Noftzger,	Charles Trowbridge Wilkins.

BACHELOR OF ARTS.

Henry Stoddard Ames,	Clarence Ashley Lightner,
Frederick Walter Arbury,	Edwin Frederick Mack,
Fanny Danforth Ball,	Flora McDonald,
Edward Arthur Barnes,	John Alexander McLennan,
Julia Randolph Bell,	Leavitt King Merrill,
Emily Augusta Benn,	Ralph Metcalf,
Lillian Margaret Berkey,	Albert Edward Miller,
Charles Hoge Black,	Julia Coats Moore,
Arthur Albert Boyer,	John Morris,
Addison Makepeace Brown,	Henry Elmer Moseley,
Edwin Newton Brown,	Arthur Thomas Packard,
Caroline Clements,	Henry Putnam Page,
John Josiah Comstock,	Samuel J. Platt,
Bethune Duffield,	Carrie Ellen Preston,
Edmund Elwood Fall,	Morse Rohnert,
Henry Allen Fitzsimmons,	Theodore Royer, Jr.,
Walter Brown Garvin,	Samuel Balcom Schoyer,
James Chester Gibbs,	Edwin Norton Smith,
Ralph Gray,	Walter Louis Stebbings,
Harman Dwight Hinsdale,	David Gray Taylor,
John Henry Jennings,	Homer Ellsworth Tinsman,
Frank Joseph Jennison,	Samuel Cooley Tuthill,
Anna Marie Kimball,	Fernando Arthur Walker,
Theodore Hickie Lasley,	Charles Dwight Willard,
Joseph Elmer Lemon,	Scott Williams,
John Thomau Winship.	

MASTER OF LETTERS.

William Harrison Mace, Alice Meyer Schryver,

MASTER OF SCIENCE.

Edwin Locke Cole, Delos Fall,
Edgar Hunter Scott.

MASTER OF PHILOSOPHY.

Frank Haywood Hodder,

Charles Hutchinson.

MASTER OF ARTS.

Julian William Baird,
 Charles William Belser,
 Cora Agnes Benneson,
 Mittie May Curtis,
 George Wells Knight,

Alma Mansfield,
 Frank Lincoln Osborne,
 Lucy Maynard Salmon,
 Edwin Ewer White,
 Francis Lodowick York.

Respectfully Submitted,

P. R. B. DE PONT,

Secretary of the Faculty.

Regent Duffield submitted the following resolution which was adopted:

Resolved, That the degrees, as indicated in the communication just read, be conferred upon the persons named, in accordance with the recommendation of the Faculty of the Department of Literature, Science and the Arts.

Professor A. B. Palmer, Dean of the Department of Medicine and Surgery, read the following report of the Faculty of that Department:

To the Honorable the Board of Regents:

The following named persons having complied with all the requirements of the Department of Medicine and Surgery are hereby recommended for the Degree of Doctor of Medicine.

A. B. PALMER, Dean.

James Buchanan Abbott,
 Josephine Fuller Alben,
 John Elmer Allaben,
 Elmar Allen,
 John Henry Amerland,
 Oscar Kemper Ardery,
 Addison Alex. Armstrong,
 John Carleton Bachop,
 Fred Clark Bailey,
 Herschell DeLoss Baker,
 Harry Clay Baum,
 Harriet C. Beringer,
 George Moore Braden,
 Anna M. Brockway,
 Augusta Irving Burdeno,
 Farquhard Campbell,
 Lewis Charles Carmer,

Will Wolcott Carpenter,
 Osbourne Foster Chadbourne,
 Perry Jacob Clark,
 Benjamin Clyne,
 David Sylvester Conley,
 J. Sylvester Corcoran,
 Catharine Ann Corey,
 Chester Emory Coulter,
 Walter Courtney,
 Lyman Samuel Crotser,
 Lewis Brush Denison,
 Austin Fillmore Denlinger,
 James Alexander Dickson,
 James Donnelly,
 John J. Eneke,
 Edward Clinton Fish,
 Charles Marshall Frye,

John Milton Gallery,
 Melvin Newton Gardner,
 Harriett Angell Gerry,
 Reuben Sherwood Gilbert,
 Charles Edwin Goodwin,
 George Stanley Gould,
 M. Clayton Green,
 Addison Davis Hard,
 Harriet L. Harrington,
 Harold Willis Hartwell,
 Marietta Haslep,
 Henry John Hensinkveld,
 Abram Nathaniel Hixson,
 Lucy H. Hoag,
 James Harvey Hudson,
 Albina Hunter,
 Ernest Reed Jellison,
 Collins H. Johnston,
 Peter Kavanaugh,
 Dennis Kearns,
 Eugene Lorin Ketchum,
 Virgil Corydon T. Kingsley,
 Joseph Michael Kleefuss,
 Leonard Leroy Knapp,
 Helena Knauf,
 John Milton Latta,
 Vilas Everett Lawrence,
 Frank Duane LeValley,
 Jacob Kingsland Lewis,
 Estelle Long,
 Franklin Paine Mall,
 W. C. Marsh,
 James Nelson Martin,
 Will James Mayo,
 Willis H. Maxson,
 Frank P. McCormick,
 Mary Hancock McLean,
 Ralph McNeas,
 John Duncan McPherson,
 William Francis Mills,
 Edward Geddes Minor,
 Robert Haldane Mitchell.

McRome Morse,
 Frank Clark Myers,
 Enoch Neff,
 Clarence Sumner Norton,
 Arthur Gordon Oven,
 Frank Ira Packard,
 A. Judson Parker,
 Delos L. Parker,
 William David Perry,
 William A. Phillips, Jr.,
 Cora Lou Pope,
 Frank Pierce Pratt,
 Benjamin Pyle,
 Alvin H. Rockwell,
 Charles Wesley Rook,
 Orielle Schuyler,
 *Jason Dewitt Shafer,
 Jacob S. Shoemaker,
 James Buchanan Siggins,
 Talbert Slenou,
 Frederick K. Smith,
 David William Steiner,
 *Robert Douglas Stephens,
 T. Seldon Stewart,
 Benjamin Grinnell Strong,
 Bishop Burtch Sudworth,
 J. Irving Sweezey,
 Margaret Telford,
 Francis Joseph Todd,
 William A. B. Treadway,
 John Sunderlin Van Vechten,
 John Daniel Walthall,
 Walter E. Ward,
 James Albert Watson,
 John F. Wayman,
 Albert M. Wheeler,
 Frank Carleton Williams,
 Norris Afton Williams,
 Samuel Alexander Work,
 Cornelius M. Wright,
 Amelia LeSueur Yeomans.

Regent Grosvenor, Chairman of Committee on Medical Department, submitted the following resolution, which was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the foregoing communication, in

* *Deceased.*

accordance with the recommendation of the Faculty of the Department of Medicine and Surgery.

Regent Shearer read the following report of the Dean of the School of Pharmacy :

UNIVERSITY OF MICHIGAN,
SCHOOL OF PHARMACY, }
June 26, 1883.

To the Honorable the Board of Regents :

GENTLEMEN : The following named students of the University have completed all the requirements for the degree of Pharmaceutical Chemist, and they are hereby recommended to you for their degree :

Samuel W. Adler,	Charles Sumner Koon,
Franklin Thayer Babbitt,	Oliver Selmore Ledman,
Julian William Baird,	Edward Leonidas LeFevre,
Hiram Stephen Barnebee,	Richard Ferdinand Obermann,
Emmett Clark Bassett,	Riesdoff Hack Ostrander,
Frederick Andrew Cooke,	Charles Philip Pengra,
Byron Winchester Damon,	Charles Frank Rieger,
James Henry Dawson,	Evan J. Romans,
Jesse Darius Denny,	Charles Louis Roos,
Edward Clem Field,	Louis William Schmidt,
Hermann Otto Frank.	Clarence Miller Shafer,
Walter McQueen Gibson,	Frederick P. Shanafelt,
Frank Balthaser Goetter,	George Perren Soyer,
George Chalmers Hall,	John Jacob Spencer,
William Hauenstein,	Jerry Charles Stephens,
Herman Joseph Holthoefer,	Grant Turner,
Harry Ernest Hosack,	Edward Champlin Varnum,
Gustavus Albert Kirchmaier,	Bess Woods White.

By direction of the the Faculty of the School of Pharmacy,

Respectfully submitted,

ALBERT B. PRESCOTT,

Dean of the Faculty.

Regent Shearer submitted the following resolution, which was adopted :

Resolved, That the degree to which each candidate named in the foregoing communication is entitled, and for which such candidate has been recommended by the Faculty of the School of Pharmacy, be awarded, and that the degree be conferred.

Professor T. P. Wilson, Dean of the Homœopathic Medical College presented the report of that Department,

which on motion of Regent Grosvenor was referred to the Committee on Medical Department.

On motion of Regent Grosvenor the Board went into executive session. At the close of the executive session on motion the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

WEDNESDAY MORNING, June 27, 1883.

The Board of Regents reassembled in the room of the President at 9 o'clock, A. M.

Present, a full Board except Regents Norris and Joy.

On motion of Regent Duffield the Board went into executive session. Afterwards the business of open session was resumed.

Regent Grosvenor, chairman of the Committee on Medical Department, Homœopathic College and Dental School, read the following report of the Faculty of the Homœopathic College:

UNIVERSITY OF MICHIGAN,
HOMŒOPATHIC MEDICAL COLLEGE,
ANN ARBOR, June 26, 1883. }

To the Honorable the Board of Regents:

GENTLEMEN,—The following named persons having complied with all the requirements of the Homœopathic Medical College are hereby recommended to your Honorable Body for the degree of Doctor of Medicine:

Elmer J. Bissell,	Julian B. Hubbell,
Charles H. Blackburn.	Harry C. Kasselmann,
Emma E. Bower,	Anna L. Laub,
William D. Cooper,	Harry M. Lufkin,
Theodore L. Hazard,	Jay S. Mead,
Susan M. Hicks,	James T. Martin,
J. Oliver Hoffman,	William B. Page,
Myron L. Huntington,	Morton C. Reeves,
	Carrie G. Watres.

Respectfully Submitted,
T. P. WILSON, Dean.

Regent Grosvenor submitted the following resolution which was adopted :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the foregoing communication, in accordance with the recommendation of Faculty of the Homœopathic College.

The memorial relative to increase of salaries having been made the special order for 9 o'clock this morning, and that hour having arrived, Professors Winchell, Olney, Jones, Morris, Langley, D O'oge, Pettee and Instructor Hennequin addressed the Board on that subject.

Regent Shearer, acting-chairman of Committee on Chemical Laboratory read letters of resignation from Mrs. Kate Crane Johnson and of Mr. Charles W. Dodd, resigning their positions in the Chemical Laboratory.

On motion of Regent Shearer the resignation of Mrs. Kate Crane Johnson and of Mr. Charles W. Dodd were accepted.

Regent Shearer presented and read the following communication from the Dean of the Chemical Laboratory :

UNIVERSITY OF MICHIGAN,
CHEMICAL LABORATORY,
ANN ARBOR, June 26, 1883. }

To the Honorable the Board of Regents :

GENTLEMEN,—To perform the principal duties left unprovided for in the coming year by the departure of Mr. Theodore J. Wrampelmeier, to whom you have granted leave of absence, (Minutes, 1883, p. 326) I beg leave to recommend the appointment of Arthur L. Green, Ph. C., from the place of Assistant in the Chemical Laboratory, to be Assistant in Pharmacy, for the year 1883-4, at a salary of five hundred dollars per annum. And to fill the place which will be vacated by the advance of Mr. Green, I recommend the appointment of Frederick P. Shanafelt, Ph. C., to be assistant in the Chemical Laboratory, for the year 1883-4, at a salary of one hundred and thirty dollars per annum. (Previous appointments, 1881, p. 78, and 1882, p. 258, of Minutes.)

To supply the vacancy left by the resignation of Mr. Charles W. Dodd, presented to you at this time, I respectfully recom-

mend the appointment of Charles F. Adams, A. B., as Assistant in the Chemical Laboratory, for the year 1883-4, at the salary of the previous incumben, one hundred and thirty dollars per annum. [Minutes, 1882, p. 258.]

The resignation of Kate C. Johnson, Ph. C., at this time, leaves the place of Dispensing Clerk to be supplied. I recommend the appointment of Franklin T. Babbitt, Ph. C., from the duty of Assistant in the Chemical Laboratory, to be Dispensing Clerk in the Chemical Laboratory, for the year 1883-4, at a salary of six hundred dollars per annum, (the compensation of the previous incumbent.) And to fill the vacancy caused by the change of Mr. Babbitt, I beg to ask the appointment of Mr. Henry Wulf, to be Assistant in the Chemical Laboratory, for the year 1883-4, at a salary of (the compensation previously granted for the same duty,) one hundred and thirty dollars per annum. [Minutes, 1883, p. 327.]

The only alterations in expenditures contemplated by these recommendations are a reduction of four hundred dollars in the salary previously received by Mr. Wrampelmeier, and an addition of one hundred dollars in the salary asked for Mr. Shanafelt,—making a reduction of three hundred dollars during the year of absence of Mr. Wrampelmeier.

Respectfully Submitted,

ALBERT B. PRESCOTT.

On motion of Regent Grosvenor the appointments were made in accordance with the recommendation of Dr. A. B. Prescott, Dean of the School of Pharmacy by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—none.

Regent Shearer presented and read the resignation of Mr. J. W. Baird, Assistant in Quantitative Analysis, and on his motion the resignation was accepted.

Regent Shearer presented the following communication from Dr. A. B. Prescott, and offered the following resolution :

Resolved, That Frank Clemens Smith be and is hereby appointed Assistant in Quantitative Analysis for the year 1883-4, at a salary of two hundred and fifty dollars.

Which motion was adopted by the following vote:
Ayes—Regents Walker, Duffield, Van Riper, Grosvenor,
Shearer and Blair; nays—none.

UNIVERSITY OF MICHIGAN,
CHEMICAL LABORATORY, }
June 27, 1883. }

To the Honorable the Board of Regents:

GENTLEMEN: Mr. J. W. Baird having resigned the position of Assistant in Quantitative Analysis, to enable him to accept a very favorable position in the Chemical Laboratory of Lehigh University, I beg leave to reconmend the acceptance of his resignation, and the appointment of Frank Clemens Smith, to be Assistant in Quantitative Analysis for the year 1883-4, at the salary of the previous incumbent, two hundred and fifty dollars per annum.

Respectfully submitted,

ALBERT B. PRESCOTT.

Regent Shearer, Chairman of Committee on Buildings and Grounds, submitted the following report of the joint Committees on Buildings and Grounds and on Finance relative to the matter of insurance:

To the Honorable Board of Regents:

GENTLEMEN: The joint Committee on Buildings and Grounds and on Finance, to whom was referred the report of the Auditing Board on the amount of insurance to be carried on the several buildings of the University, unite in recommending that the Auditing Board, as opportunity offers, procure and carry the following named amounts of insurance on the several buildings:

On University Hall and two wings.....	\$60,000
“ Law Building.....	12,500
“ Homœopathic College and Hospital	6,000
“ University Hospital	10,000
“ Medical College	12,500
“ Chemical Laboratory.....	12,500
“ Dental College.....	5,000
“ President’s House.....	5,000
“ Museum.....	None.
“ New Carpenter Shop.....	“
“ Old Carpenter Shop	“
“ Central Boiler House.....	“
“ Astronomical Observatory.....	7,000
“ Eye and Ear Ward.....	1,500

JAMES SHEARER,
Chairman Committee on Buildings and Grounds.
SAMUEL S. WALKER,
Chairman of the Finance Committee.

Regent VanRiper moved that the above report be adopted, and that the Board do not think it wise to carry any insurance on the personal property and apparatus in the several buildings. Adopted by the following vote :

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Walker submitted the following resolution, which was adopted :

Resolved, That the Auditing Board be directed to procure insurance to the amounts as recommended in the report of the Committee on Buildings and Grounds and on Finance, in such companies and on such terms as shall seem to be for the best interests of the University, after receiving proposals from the agencies at Ann Arbor and such other insurance brokerage agencies as they may consult, the same to be made as the existing policies may from time to time expire.

Carried, by the following vote :

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Shearer, Chairman of Committee on Buildings and Grounds, submitted the following report :

June 38, 1883.

GENTLEMEN : Your Committee on Buildings and Grounds, to whom was referred the petition of Professor Frieze, ex-Governor Felch, and Messrs. Cornwell and Stevens, for permission to connect a sewer leading from their several residences with the sewer from the University, having given the matter due consideration, would recommend that permission be granted to make such connection with proper sized tile and a catch basin. Said catch basin and connection to be made under the supervision and direction of the Superintendent of the new Library building.

Your Committee do not approve of the connection of sewers with the sewer of the University, and make this exception

on account of the granting a right of way for said sewer by these parties to the University.

JAMES SHEARER,

Chairman.

On motion of Regent Blair, the report of the Committee was adopted, by the following vote :

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor presented the following communication from the Dean of the College of Dental Surgery :

ANN ARBOR, June 27, 1883.

To the Honorable, the Board of Regents :

The following persons having completed the prescribed course of study and work in the Dental College, are hereby recommended for the degree of *Doctor of Dental Surgery*, viz :

William Hathaway,

Albert Smith,

Isaac D. Sperling.

J. TAFT, Dean.

Regent Shearer submitted the following resolution, which was adopted :

Resolved, That the Degree of Dental Surgery be conferred on the persons named in the foregoing communication, in accordance with the recommendation of the Faculty of the Department of Dental Surgery.

Regent Duffield, Chairman of the Library Committee presented and read the report of R. C. Davis Librarian, and on his motion the report was accepted and placed on file.

On motion of Regent Grosvenor the Board adjourned to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled at 2 o'clock P. M. Present, Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

The amendment to the By-Laws submitted by Regent Walker was taken from the table and reads as follows :

In the By-Laws adopted November, 1830, defining the duties of the Secretary and Steward, omit the following :

“He shall be the purchasing agent of the University, in all of its Departments, subject to the approval of a majority of the Auditing Board, except as may be otherwise ordered by the Board of Regents. But in the purchase of books for the several libraries the General Librarian shall be associated with the Steward and shall furnish the lists therefor ; and in making purchases which may be ordered for the several Departments, or for individual chairs, the Dean of the Department or the incumbent of the chair, as the case may be, shall in like manner be associated, and shall furnish proper lists.”

And in place of the omitted words insert the following :

“ He shall be and is hereby designated as sole purchasing agent for the University and his duties as such shall be to order and purchase any and all goods, supplies, incidentals, material, etc., not otherwise specifically provided for by resolution of this Board. His powers as such purchasing agent shall be limited to the ordering and purchasing such books, goods and supplies as shall be desired or required by any of the Departments of the University, the list with details as to editions, binding, quantity, and quality, etc., etc., to be furnished in writing over the signature of the head of the department desiring the goods. The requisition so made shall be submitted at once to the Auditing Board and with the approval of the said Board, of which a record shall be made, the purchasing agent shall order and purchase the goods so requested and certified, but the purchasing agent shall in no case order or purchase any goods for any Department when funds are not at the credit of the proper fund sufficient to pay all the indebtedness incurred, or when the immediate certain resources are not sufficient therefor.”

The objects of this resolution were stated by the mover to be,

1st : That all the purchasing of goods of any and every nature for the University shall be systematically made by one person and a full and complete record of the same shall be kept at one place which record shall be the property of the University and accessible at all times to the members of the Board of Regents.

2d: That the liabilities of the University may at all times be exactly known by the Board of Regents or any member thereof.

The above amendment was adopted by the following vote:

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Duffield stated that the Librarian needed an assistant and moved that the matter be placed in the hands of the Library Committee of the Faculty, with power to select and employ a proper person to discharge the duties at a salary not exceeding six hundred dollars. The motion was adopted by the following vote:

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Shearer moved that the Library Committee be instructed to report to the Board at the next meeting whether the money appropriated by the Legislature for the University Library should be divided between the General Library, the Law Library, and the Medical Library, and if so in what proportion to each. The motion was adopted.

Regent Shearer moved that the matter of increasing the heating apparatus be referred to the Committee on Buildings and Grounds, and that they be requested to report a plan with estimate of cost at the next meeting of the Board. The motion was carried.

Regent Duffield presented the request of Prof. J. W. Langley asking an appropriation for the purchase of additional apparatus in the department of General Chemistry. On motion of Regent Grosvenor the request was referred to the Committee on Finance.

Regent Duffield presented and read the following report which was ordered printed in the minutes :

To the Honorable, the Regents of the University of Michigan :

The Committee appointed by your honorable body at their meeting, June 29th, 1882, "to investigate and report their recommendations on" the Memorial presented by the American Philological Association and the American Association for the Advancement of Science in regard to the matter of conferring the degree of Doctor of Philosophy *honoris causa*, beg leave to report the following as the result of their conclusions.

The paper presented by your memorialists consist of three essential elements ; first, that the degree of Ph. D. in Germany where it originated, is purely a professional degree and is conferred only after a course of study at a University of at least three years, ending with a successful examination ; second, that in America this degree has been removed from the class of professional degrees, and degraded to a degree frequently given *honoris causa*, and, third, that an effort should be made by the governing bodies of our colleges and universities to restore this degree to the class from which it has been removed.

On the first of these positions the language of your memorialist is as follows : "In order to obtain it (the degree of Ph. D. in Germany) the candidate—if a native—must first have pursued successfully the studies of the gymnasium or real-school ; must have been in residence at a university for three years ; must present a thesis, which at many universities is printed, and must pass an examination. In Germany the degree of Doctor of Philosophy is as much a professional degree as that in Theology, Law, or Medicine."

It seems to us not a little singular that the distinguished scholars whose names are attached to the Memorial should have given the weight of their authority to so erroneous a representation. The history of the degree of Doctor of Philosophy is not an obscure one ; and therefore it is not easy to understand how even from inadvertence it should have been either overlooked or forgotten by the chosen representatives of the two learned societies whose especial mission is supposed to be the encouragement and guardianship of exact scholarship.

Formerly, indeed, the degree of Ph. D. had something of importance ; for it gave to its possessor the right to a voice in

the choice of university officers, and the right to be a candidate for appointment to a position as teacher or professor. But at the time of the educational reforms in Prussia under Stein even these somewhat barren rights were taken away and were given to the commissioners appointed to conduct the examinations by the State. For about half a century after this change the degree was a necessary condition of admission to the examination by the State commissioners; but the decree of December 12, 1866, robbed it of even that significance. Since that date, the degree of Ph. D. has not been necessary for admission to any position in Prussia whatever. Similar decisions have taken away the old significance of the degree in other German States. In allusion to this well-known tendency Professor Roth, the distinguished Sanscrit scholar, in a recent letter to one of the members of your committee speaks of the degree as having become purely honorary in its character (zu einer bloßen Ehrensache geworden).

Nor is it by any means true, as your learned memorialists would have us infer, that the German universities guard the degree of Ph. D. with so much sanctity as never to confer it *honoris causa*. A few years ago Professor Mommsen published an article on "The Pseudo Doctors," in which his object was to protest against the frequency with which the degree is given. Among other illustrations he called attention to the fact that one William Dabis had recently been created doctor on the presentation of a fraudulent thesis and the payment of a sum of money. This protest of the distinguished Roman historian was soon followed by another written by the same hand, on "The Reform in the Doctorate." An energetic discussion followed, carried on mainly on the one side by Professor Mommsen, and on the other by Carl Voigt and Professor Heinsen, of Heidelberg. The very fact of the discussion, aside from all merits of the questions at issue, shows the prevalent existence in Germany of the same evils as those complained of here. On this point we are not left in any uncertainty whatever, for we have testimony of the most unmistakable nature. In the year 1878 the Society for the Study of Questions of Higher Education (Société pour l'étude des Questions d'Enseignement Supérieur), organized in France, published a Report that is perhaps the most valuable contribution recently made to the literature of higher education. A hundred and fifty-eight pages of this report are devoted to a description of the University of

Bonn, including six pages descriptive of the manner of conferring degrees. M. Edmond Dreyfus-Brisac, who writes this portion of the report, explains the general policy of the German universities in the following words :

“ In general the universities of Protestant countries are more severe in their exactions for the degree than are the universities of Catholic countries. For example, the diplomas of the Prussian universities are more difficult to obtain than those of the universities in the greater part of the other countries of the empire. It is also worthy of remark that the older universities are more indulgent in this regard than the new ones, and the smaller universities less exacting than the large ones. If the diplomas of Jena and Rostock have no very great value, those of Berlin and Bonn are much more difficult to acquire.” (Report, p. 117.)

After pointing out in this manner that the University of Bonn is among the most exacting in the matter of degrees, M. Dreyfus gives a table showing the number of degrees conferred in the University during the period extending from 1861 to the publication of the Report in 1878. During the intervening sixteen years the doctorate was conferred on seven hundred and sixty (760) persons on examination, and on one hundred and five (105) persons *honoris causa*. In the single year 1867-68 this distinguished university, so chary of its honors, conferred the degree of Ph. D. *honoris causa* on eighteen persons. (Report, p. 122.)

The second position taken by your memorialists is in the following words :

“ When this degree was first transferred to this country, the conditions under which it was conferred abroad were rigidly maintained here. These conditions still exist in full force in the eight or ten universities which since that time have provided courses of study in Philosophy for Bachelors of Arts. But meanwhile the practice has been established of giving the degree *honoris causa*.”

After what has been already shown to be the custom of German universities, it is unnecessary to multiply words to show the inaccuracy of these statements. In view of the history of the degree in Germany, it would not be easy to show that we are not as much indebted to Germany for the custom of giving the degree *honoris causa*, as for the custom of giving the degree on examination.

The history of the degree in Germany makes it unnecessary to dwell at length on the third position of your memorialists. It is enough simply to say that the degree cannot be restored to a position from which it has not been removed.

While we are not a little surprised at the positions taken by your distinguished memorialists, we do not wish to be understood as condemning *in toto* the object of the memorial. We are firmly of the opinion that the degree of Ph. D. should be given only after the most discriminating thought, and only as the reward for conspicuous attainments. But this we understand always to have been the policy of this University. The course pursued has been strictly in accordance with the methods that prevail in Germany. Indeed the policy of the University of Michigan could hardly be more perfectly described than by adopting the language of Professor Roth in describing the policy of the universities of Germany. He says :

“I have found nothing in early times concerning doctors *honoris causa*. But at present the Faculties do not hesitate to confer their degrees by simple resolution upon persons who have shown marked scientific or literary attainments.” (MS. Letter of Professor Roth, dated Tübingen, December 17, 1882.)

We regard the German example in this, as in so many other directions, as quite worthy of imitation ; and therefore we find ourselves unable to recommend any change in the general policy of the University concerning the matter discussed in the memorial.

Respectfully submitted,

JAMES B. ANGELL.

H. S. FRIEZE.

C. K. ADAMS.

On motion of Regent Duffield, the thanks of the Board were tendered the Committee for their able report.

Regent Grosvenor submitted the following resolutions, which were adopted :

Resolved, That the title of Dr. Victor C. Vaughan be changed to Professor of Physiological and Pathological Chemistry and Associate Professor of Therapeutics and Materia Medica : Provided, that his salary shall not be increased by this change of title.

Resolved, That the title of Dr. Chas. H. Stowell be changed to Professor of Histology and Microscopy, without increase of salary.

The resolutions were adopted, by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor also submitted the following :

Resolved, That Osbourne F. Chadbourne be appointed Assistant to the Professor of Pathology and Practice of Medicine, at a salary of \$200 a year, and that he be appointed Secretary of the Medical Faculty, at a salary of \$200 a year.

The resolution was adopted, by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor submitted the following resolutions :

Resolved, That James N. Martin be appointed Assistant to the Professor of Surgery, at a salary of two hundred dollars per annum.

Resolved, That Charles M. Frye be appointed Assistant to the Professor of Materia Medica, Ophthalmic and Aural Surgery, and Clinical Ophthalmology, at a salary of two hundred dollars per year.

The resolution was adopted by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair ; nays—none.

Regent Walker presented a communication from Assistant Professor Charles S. Denison asking an appropriation of one hundred dollars for the purchase of models for the class in free-hand drawing in the Engineering Department, and submitted the following resolution :

Resolved, That the sum of one hundred dollars, or so much thereof as may be necessary, be and is hereby appropriated for the purchase of models for the drawing class of the Engineering

Department, the same to be expended by the Secretary and Steward under the advice of Professor Denison.

The above resolution was adopted by the following vote: Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair; nays—none.

Regent Grosvenor submitted the following resolution which was adopted:

Resolved, That there be established in the Homœopathic Medical College a Chair of Obstetrics and Diseases of Women and Children.

Regent Walker moved that the usual numbers of copies of the memorial address delivered by Dr. Winchell on the Life and Services of the late Dr. Cocker, and also of the address of Prof. James O. Murray, D. D., of Princeton, N. J., delivered before the graduating class, be printed at the expense of the University. The motion was carried by the following vote:

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer and Blair.

Nays—None.

On motion of Regent Walker the Board went into executive session. After which on motion of Regent Van Riper the Board adjourned to 8 o'clock P. M.

EVENING SESSION.

The Board reassembled in the room of the President. Present, Regents Walker, Duffield, VanRiper, Grosvenor, Shearer and Joy.

On motion the Board went into executive session. After some time the business of the open session was resumed.

On motion of Regent Walker the Committee on Buildings and Grounds were instructed to cause a connection

to be made with the University Sewer on North University Avenue in front of the Hospitals under the direction of the Superintendent of the New Library Building.

Regent VanRiper moved that when the Board adjourn it adjourn to July 17th at 7 o'clock P. M.—Carried.

The following resolutions, submitted by Regent Walker, were adopted unanimously:

Resolved, That the honorary degree of Master of Arts be and is hereby conferred upon Edward Charles Hegeler.

Resolved, That the honorary degree of Doctor of Philosophy be, and is hereby conferred upon Amos Emerson Dolbear, A.M.

The following resolution, submitted by Regent Shearer, was adopted unanimously:

Resolved, That the honorary degree of Master of Arts be, and is hereby conferred upon Philip St. George Cooke, U. S. A.

The following resolution, submitted by Regent VanRiper, was adopted unanimously:

Resolved, That the honorary degree of Doctor of Laws be, and is hereby conferred upon the Honorable Benjamin Franklin Graves.

The following resolution, submitted by Regent Grosvenor, was also unanimously adopted:

Resolved, That the honorary degree of Doctor of Laws be, and is hereby conferred upon Samuel Pierpont Langley.

On motion of Regent Blair, the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

THURSDAY MORNING, June 28.

The Board re-assembled in the room of the President at 9 o'clock A. M. And on motion of Regent VanRiper,

the Board adjourned to Tuesday, July 17th, 1883, at 7
o'clock p. m.

JAMES H. WADE,
SECRETARY.

ADJOURNED MEETING.

JULY 17, 1883.

UNIVERSITY OF MICHIGAN, }
Tuesday, July 17, 1883. }

The Board of Regents convened in the room of the President at 7 o'clock P. M., pursuant to adjournment.

Present, the President, Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Absent, Regent Joy.

The meeting was called to order by the President.

On motion of Regent Grosvenor the minutes of the last meeting were approved as printed.

The President stated that he had received several communications which he suggested should be referred to the appropriate committees of the Board. There being no objection the papers took that course.

Prof. William P. Wells being present and desiring to address the Board in reference to the extension of the Law term to two years of nine months each. Regent Blair moved that he be now heard. The motion prevailed; and Prof. Wells presented at some length the views of the Law Faculty on that subject and also upon the provision for salaries of the Law Professors and upon the need of increasing the Law Library.

Regent Blair moved that the whole matter be referred to the Committee on Law Department, with instructions to report on it at this or a subsequent meeting of the Board.

Regent Grosvenor read a communication from Dr. Hendricks relative to the care of the Medical Museum. On motion of Regent Van Riper the communication of Dr. Hendricks was referred to the Committee on Medical Department and Regent Walker, with instructions to report at this meeting with recommendations.

On motion of Regent Van Riper the Board went into executive session, after which the Board adjourned to 9 o'clock Wednesday morning.

WEDNESDAY MORNING, July 18th.

The Board reassembled in the room of the President at 9 o'clock A. M. Present, a full Board except Regent Joy.

Regent Walker moved that the Board take a recess until 1:30 o'clock P. M., in order that the members might have an opportunity to visit the several Departments, ascertain their condition, and order such repairs as should be found necessary. The motion was carried and the Board proceeded on a tour of inspection.

AFTERNOON SESSION.

The Board reassembled in the room of the President.

Present, the President, Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Absent, Regent Joy.

Regent Grosvenor presented the following resolutions:

Resolved, That in the judgment of this Board the Medical Buildings require general renovation and improvement in ventilation, and some changes should be made to secure a more convenient arrangement and more perfect care of the specimens in the museum,

Resolved, That Five Hundred dollars, or so much thereof as may be needed, be expended by the Auditing Board for the purposes referred to in the foregoing resolution.

The above resolutions were carried by the following vote :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Grosvenor presented the annual report of the Faculty of the Homœopathic Department, and asked that it be placed on file, which was so ordered.

Regent Walker, Chairman of Finance Committee, presented the following resolutions :

Resolved, That the Treasurer be and is hereby directed to charge the debit balance of \$1,740.72 of the Dental account to the General Fund.

Resolved, That the Legislative appropriation for the year 1883 of \$1,500 for the Physical Laboratory be placed at the disposal of the department for expenditure under the direction of the Board of Audit.

Resolved, That the Legislative appropriation for the year 1883 of \$2,000 for the purchase of apparatus for the Physiological Laboratory be expended by the Auditing Board upon consultation with the Professor of Physiology.

The above resolutions were adopted by the following vote :

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent VanRiper submitted the following resolution :

Resolved, That the salary of James Hobson, taxidermist, be increased to \$50 per month, to commence with this month of July.

The above resolution was adopted by the following vote :

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Walker, Chairman of Finance Committee, presented the following resolution :

Resolved, That the Legislative appropriation of \$1,000 for apparatus for the Mechanical Laboratory for the year 1883 be placed at the disposal of the Professor of Mechanical Engineering for expenditure under direction of the Board of Audit.

The above resolution was adopted by the following vote :

Ayes—Regent Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Grosvenor, Chairman of Committee on Medical Department presented the following resolution and moved its adoption. The resolution was adopted unanimously :

Resolved, That until otherwise ordered the charge for board by the matrons of the Hospitals shall not exceed \$3.50 per week.

Regent Shearer, Chairman of Committee on Buildings and Grounds, presented a communication from Dr. Taft, Dean of the College of Dental Surgery, and moved that it be referred to the Executive Committee, and it was so ordered.

Regent Grosvenor presented and read the annual report of the Demonstrator of Anatomy, which was ordered placed on file.

Regent Blair, Chairman of Executive Committee, submitted the following resolution which was adopted unanimously :

Resolved, That in pursuance of the resolution of the Board adopted March 27, 1883, the course in Law be and the same is hereby extended so as to embrace two terms of nine months each, and that such changes in the details of instruction in the Law Department as may be rendered necessary by this extension of the terms will be hereafter made upon such reports from the Law Faculty as shall indicate the changes desirable to be made.

2. That after the removal of the University Library from the Law Department building, the whole of that building is to be devoted to the use of that Department, and the Secretary and Steward is hereby directed to renovate, repair, and put in order the building for such use as soon as may be after the removal of the Library therefrom.

Regent Norris moved that all matters relating to increase of salaries be referred to a special committee composed of the Chairmen of the Executive, Finance, Library, and Medical Committees, and asked that they give the matter careful consideration and report the result of their labors with recommendations to the Board at their next meeting. The motion was carried.

Regent Walker, Chairman of Committee on Finance, moved that M. E. Cooley, Professor of Mechanical Engineering, be paid the sum of four hundred dollars a year for his services, to date from Oct. 1st, 1882. Referred to the Special Committee on Salaries.

Regent Norris submitted the following resolution :

Resolved, That the salary of Assistant Professor Calvin Thomas be increased two hundred dollars per annum.

Referred to Special Committee on Salaries.

Regent Walker submitted the following resolution :

Resolved, That the salary of Mrs. L. R. Stowell, Assistant in Microscopical Botany, be one thousand dollars from Oct. 1st, 1883.

This resolution was also referred to the Special Committee on Salaries.

Regent Van Riper submitted the following resolution and asked that it be referred to the Special Committee on Salaries, which was so ordered :

Resolved, That the Salary of Dr. Wm. J. Herdman be increased to that of a full Professor in the Medical Department.

Regent Grosvenor presented and read the following communication, and moved that the gift be accepted, and

that the President be requested to convey to the class the thanks of the Board. The motion was carried.

UNIVERSITY OF MICHIGAN, June 21st, 1883.

To the Honorable Board of Regents:

The graduating class in the Department of Medicine and Surgery have appointed me to present to the University for the use of the Hospital Amphitheatre of the "University Hospital," the clock which they have bought and had placed therein. Hereby please consider the presentation made.

Yours very respectfully,

ADDISON D. HARD.

Regent Walker submitted the following resolution:

Resolved, That the sum of one thousand dollars be taken from the appropriation for the General Library and expended for books for the Law Library, and that the farther sum of one thousand dollars be used for the purchase of books for the Medical Library.

Referred to the Chairmen of the Law and Medical Committees.

Regent Van Riper submitted the following:

Resolved, That the sum of one thousand dollars for the purchase of law books and five hundred dollars for the purchase of medical books be appropriated from the General Fund.

This resolution was also referred to the Chairmen of the Law and Medical Committees.

Regent Grosvenor submitted the following report and recommendations, which were adopted:

The Committee on Medical Department, to whom was referred sundry bills of Mary Gillett, Matron of Homœopathic Hospital, for board of sundry persons, inmates of said hospital, amounting to one hundred and forty and 10-100ths dollars, recommend that said bills be disallowed.

On motion of Regent Van Biper the Board went into executive session. After which the business of the open session was resumed.

Regent Grosvenor presented and read the resignation of Dr. Edward C. Franklin, Professor of Surgery and

Clinical Surgery in the Homœopathic Medical College. The resignation was accepted.

Regent Van Riper submitted the following resolution :

Resolved, That the Chair of Obstetrics and Diseases of Women and Children in the Homœopathic Medical College, be tendered to Prof. A. C. Cowperthwaite, with the title of Professor of Obstetrics and Diseases of Women and Children, and with a salary of \$2,200 per annum.

The vote on Regent Van Riper's resolution was as follows :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor submitted the following resolution :

Resolved, That Henry C. Allen, M. D., be, and is hereby appointed Lecturer on Materia Medica, Pharmacology and Clinical Medicine in the Homœopathic Medical College, at a salary of sixteen hundred and fifty dollars.

The vote on the above resolution was as follows :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shear and Blair.

Nays—None.

On motion of Regent Norris, the Executive Committee and the Chairman of the Medical Committee were charged with the duty of filling the Chair of Surgery in the Homœopathic Medical College, made vacant by the resignation of Dr. E. C. Franklin.

Regent Norris submitted the following resolution :

Resolved, That the unpaid portion of one year's salary heretofore continued to the late Professor Cocker, with leave of absence, be paid to his legal representatives.

The vote on Regent Norris's resolution was as follows :

Ayes—Regents Norris, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

On motion of Regent Shearer, the Board adjourned to 7:30 o'clock p. m.

EVENING SESSION.

The Board reassembled in the room of the President at 7:30 o'clock p. m.

Present—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Absent—Regent Joy.

Regent Norris submitted the following resolution :

Resolved, That the Laws and By-Laws of the University of Michigan heretofore reported and printed, as amended at the last meeting of the Board, with such corrections as are contained in the President's copy, now approved by the Board, be, and they are hereby adopted ; and the Executive Committee are instructed to have printed for the use of the Board five hundred copies.

The vote on Regent Norris's resolution was as follows :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Walker presented a communication from the Treasurer, and asked that it be referred to the Special Committee on salaries. There being no objection it was so referred.

The question of extending the term in the Department of Dental Surgery to nine months being under consideration, Regent Blair moved that the whole matter be laid on the table. The motion was carried unanimously.

Regent Van Riper submitted the following resolution :

Resolved, That the room in the new library building suggested as a room for Regents' meetings, (namely, the room in the second story of the west wing) be set apart for that purpose,

and be fitted up under the direction of the Committee on Buildings and Grounds.

On motion of Regent Duffield the resolution of Regent Van Riper was adopted by the following vote :

Ayes—Regent Norris, Walker, Duffield, Van Riper, Shearer, and Blair.

Nays—None.

On motion of Regent Duffield, it was voted that the following assignment of rooms in the new library building be made: West wing, ground floor, the south room to the librarian; the room north of that shall be a reception room for the special use of professors and of visitors. East wing, second floor, the principal room and the room between that and the book room, shall be for the use of advanced students, seminary classes, and others doing special work of investigation and research. To the same use also is given the room between the book room and the Regents' room.

Regent Blair moved, that George F. Heath, M. D., be employed as Resident Physician and Surgeon in the University Hospital at a salary of five hundred and fifty dollars; and that Arthur G. Oven, M. D., be appointed Ward Master in said Hospital at a salary of three hundred dollars; also, that the Medical Faculty be authorized to employ one nurse at a salary of two hundred dollars. It was so ordered by the following vote:

Ayes—Regents Norris, Walker, Duffield, Van Riper, Shearer, and Blair.

Nays—None.

On motion of Regent Shearer, the Board went into executive session. After some time, the business of the open session was resumed.

Regent Shearer, Chairman of Committee on Buildings and Grounds, presented a communication from Prof. M. E. Cooley, asking that the new carpenter shop be assigned by the Board to the use of classes in the Mechani-

cal Laboratory, and that it be moved from its present location and be attached to and become a part of the Laboratory. Referred to the Committee on Buildings and Grounds.

Regent Shearer submitted the following resolution :

Resolved, That the Committee on Buildings and Grounds be, and are hereby directed to proceed to complete all necessary plans; arrangements and contracts for making the contemplated additions to the heating apparatus and improvements therein ; also to arrange for the building of a coal shed, to be attached to the present boiler house, on the north side of the same. All of said heating apparatus, improvements and coal shed to be provided at an expense within the amount appropriated by the Legislature, viz., \$8,000.

It was adopted by the following vote :

Ayes—Regents Norris, Walker, Duffield, VanRiper, Shearer, and Blair.

Nays—None.

Regent Walker submitted the following resolution, and on his motion it was adopted unanimously :

Resolved, That the Secretary and Steward be directed to prepare an inventory of the disused furniture, etc., belonging to the University, and under the direction of the Board of Audit, to sell the same, or any portion thereof, covering the proceeds from such sale into the General Fund.

On motion of Regent Norris, the Board adjourned to July 30th, at 7 o'clock p. m.

JAMES H. WADE,
SECRETARY.

ADJOURNED MEETING.

JULY 30, 1883.

UNIVERSITY OF MICHIGAN, }
Monday, July 30, 1883. }

The Board of Regents assembled in the room of the President, at 7 o'clock p. m., pursuant to adjournment.

Present, the President, Regents Norris, Walker, Duffield, Grosvenor, Shearer, and Joy.

On motion of Regent Grosvenor the minutes of the last meeting were approved as printed.

On motion of Regent Norris the Board went into executive session, after which the business of the open session was resumed.

Regent Grosvenor submitted the following resolutions:

Resolved, That President Angell, Regents Duffield, Joy, and Blair, be appointed a committee to visit Professor Jacob Cooper, of New Brunswick, New Jersey, and if they deem him the proper man to fill the Chair of Psychology, Speculative Philosophy and Philosophy of Religion, made vacant by the death of Dr. Cocker, that they be authorized on behalf of the Board of Regents to tender him the position.

Resolved, That in case the position should not be accepted by Professor Cooper, that said committee is hereby authorized to make such temporary arrangement to fill said chair as they may deem for the best interest of the University.

The above resolutions were adopted by the following vote:

Ayes—Regents Norris, Walker, Van Riper, Grosvenor, Shearer, and Joy.

Nays—None.

Regent Grosvenor moved that Dr. Charles E. Walton, of Hamilton, Ohio, be appointed to the Chair of Surgery and Clinical Surgery, in the Homœopathic Medical College.

The vote on the above motion was as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Joy

Nays—None.

Regent Shearer presented the following resolution and asked its adoption :

Resolved, That the building now used by the contractor for the new Library Building as a joiner's shop, be and is hereby directed to be given to the Department of Mechanical Engineering, with the machinery now in said building that can be used by this department. Said change of use to be made after the contract for the Library Building has been completed. And be it further

Resolved, That the Secretary be instructed to sell the engine at present in the Mechanical Laboratory, and to move said joiner's shop to a connection with the present Mechanical Laboratory building.

The resolution of Regent Shearer was adopted by the following vote :

Ayes—Regents Norris, Walker, Duffield, Grosvenor, Shearer, and Joy.

Nays—None.

Regent Walker submitted the following resolution :

Resolved, That the matter of the filling of the Chair of Obstetrics and Diseases of Women and Children, in the Homœopathic Medical College, be referred to the Medical Committee, to be reported at the next meeting of the Board.

The vote on this resolution was as follows :

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Joy.

Nays—None.

Regent Walker also presented the following resolution :

Resolved, That the sum of six hundred dollars, or so much thereof as may be necessary, be and is hereby appropriated for the purpose of supplies, for the Department of General Chemistry.

The resolution of Regent Walker was adopted by the following vote:

Ayes—Regents Norris, Walker, Duffield, Van Riper, Grosvenor, Shearer, and Joy.

Nays—None.

On motion of Regent Norris the Board adjourned to meet at the call of the President, during the first half of October.

JAMES H. WADE,
SECRETARY.

OCTOBER MEETING.

1883.

UNIVERSITY OF MICHIGAN, }
Friday, Oct. 12, 1883. }

The Board of Regents assembled in the room of the President, at 7:30 o'clock p. m.

Present, the President,—Regents Walker, Shearer, Duffield and Blair.

There being no quorum, the Board adjourned to Wednesday, November 7th, at 7:30 o'clock p. m.

ADJOURNED MEETING.

NOVEMBER, 1883.

UNIVERSITY OF MICHIGAN, }
Monday, Nov. 7, 1883. }

The Board of Regents convened in the room of the President pursuant to adjournment, at 7:30 o'clock P. M.

Present, the President, Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair. Absent, Regents Norris and Joy,

The meeting was called to order and opened with devotional exercises by the President.

On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

The President stated that several communications had been placed in his hands, and suggested that they be referred to appropriate committees of the Board. There being no objection, the papers took that course.

Regent Duffield presented and read a report of the action of the Executive Committee at their meetings held since the July meeting of the Board.

On motion of Regent Shearer the report was accepted.

The President stated that his annual report had been prepared and was held subject to the pleasure of the Board. Regent Grosvenor moved that the report be read by the President. The motion prevailed.

PRESIDENT'S ANNUAL REPORT.

To the Honorable the Board of Regents:

I have the honor to submit to you my Annual Report for the academic year, ending September 30th.

The changes in the Faculties have not been numerous. In March last Hon. Alpheus Felch resigned the Tappan Professorship of Law, and subsequently Henry Wade Rogers, A. M., was elected as his successor.

In April last the University sustained a most serious loss in the death of Rev. Benjamin F. Cocker, D. D., LL D, Professor of Psychology, Speculative Philosophy and Philosophy of Religion. He was called to the Chair of Mental and Moral Philosophy on the retirement of Dr. Haven from the University in 1869. During all the period since that date he had devoted himself to the service of the University with signal fidelity and distinguished ability. He had an unusual power of attracting his pupils, of winning their affection and of wielding a beneficent moral influence over them. His published philosophical works have reflected honor on him and on the University.

In August last the chair made vacant by the death of Dr. Cocker was tendered to Rev. Jacob Cooper, D. D., Professor of Greek in Rutgers College. He has not yet decided whether he will accept it.

Provision has been made for the occupancy of the Chair during the first semester, during which instruction is given in Psychology, Logic and Speculative Philosophy, by the appointment of Prof. George H. Howson, LL. D.

Professor E. C. Franklin, M. D., resigned the Chair of Surgery and Clinical Surgery in the Homœopathic Medical College in July last, and in August H. L. Obetz, M. D., was appointed his successor. The new Chair of Obstetrics and Diseases of Women and Children in the Homœopathic College, which was provided for by an appropriation of the last legislature, has been filled by the appointment of Newton Baldwin, M. D.

In September the Executive Committee appointed William A. Campbell, M. D., Assistant in Microscopy and General Histology in place of Lorin Hall, M. D., resigned, and Clarence G. Taylor, B. S., Assistant in the Mechanical Laboratory.

On the first of February, 1883, Harrison Soule, Jr., succeeded William A. Tolchard in the office of Treasurer, and James H. Wade succeeded Henry D. Bennett in the offices of Secretary and Steward. Mr. Tolchard and Mr. Bennett had both tendered their resignations on January 3d. The former had held his position more than four years and a half, the latter about thirteen years.

The titles of some of the members of the Faculties have been changed. Dr. Herdman is now styled Professor of Practical and Pathological Anatomy and Demonstrator of Anatomy, Dr. Geo. A. Hendricks, Instructor in Anatomy and Curator of the Medical Museum, W. W. Beman, Associate Professor of Mathematics, Dr. Vaughan, Professor of Physiological and Pathological Chemistry and Associate Professor of Therapeutics and Materia Medica, and Dr. Stowell, Professor of Histology and Microscopy.

Degrees have been conferred as follows:

DEGREES ON EXAMINATION.

Bachelor of Letters	3
Bachelor of Science.....	9
Bachelor of Philosophy.....	18
Bachelor of Arts.....	51
Master of Letters	2
Master of Science	3
Master of Philosophy	2
Master of Arts.....	10
Doctor of Medicine (Dep't of Medicine and Surgery).....	117
Bachelor of Laws.....	154
Pharmaceutical Chemist.....	36
Doctor of Medicine (Homœopathic College).....	16
Doctor of Dental Surgery.....	29

450

HONORARY DEGREES.

Master of Arts	2
Doctor of Philosophy	1
Doctor of Laws	2—5

455

Of the Bachelors of Science six had pursued the course in Civil Engineering, and one the course in Mechanical Engineering.

The total number of students in attendance was 1,440, distributed as follows:

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Resident Graduates.....	25
Candidates for a Degree.....	410
Students not Candidates for a Degree.....	89 — 524

DEPARTMENT OF MEDICINE AND SURGERY.

Resident Graduates.....	2
Third Year Students.....	120
Second Year Students.....	120
First Year Students.....	127 — 309

DEPARTMENT OF LAW.

Seniors.....	158
Juniors.....	175 — 333

SCHOOL OF PHARMACY.

Resident Graduates.....	2
Second Year Students.....	41
First Year Students.....	44 — 87

HOMŒOPATHIC MEDICAL COLLEGE.

Students—Total in the College	58
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COLLEGE OF DENTAL SURGERY.

Students—Total in the College.....	69
------------------------------------	----

1,440

As compared with the previous year there was an increase in the number of students in the Literary Department, but a decrease in all the other Departments. It is believed that this decrease, which was anticipated, was in large part due to the increase made in the fees. It is gratifying to see that the number of Michigan graduates was nearly doubled.

The number of women in attendance was as follows:

Literary Department	107
Department of Medicine and Surgery.....	43
Department of Law.....	3

School of Pharmacy-----	2
Homœopathic Medical College-----	13
Dental College-----	2
	<hr/>
	170

A little less than three-fifths of the students in the Literary Department, and about one-third of the students in the Professional Schools are from Michigan. This State furnished as usual about 47 per cent. of all the students in the University. All the Eastern, Middle, and Western States, as is generally the case, were represented among our undergraduates. So too were all but three of the Southern States, five of our Territories, and Ontario, New Brunswick, Nova Scotia, England, Ireland, Scotland, Roumania, and the Hawaiian Islands.

As we have now for thirteen years, without the least embarrassment, admitted women to all the privileges of instruction in the University, we cannot but observe with gratification how rapidly public opinion, both in Europe and America, is coming to approve the granting of substantially the same opportunities for education to women as to men. It may be questioned whether this change in public sentiment is not the most important event in the educational history of the last fifteen years. We shall risk little in predicting that the institutions in this country which are furnishing separate instruction of a high grade to each of the sexes will at no distant day find, like ourselves, that there is no adequate reason why they should not save labor and expense by educating the male and the female students for the most part in the same class-rooms.

Some of the friends of the University have during the year given very gratifying proofs of their interest in her welfare.

One who does not permit his name to be disclosed at present placed the sum of twenty-five hundred dollars in the hands of Professor C. K. Adams, and asked him to expend it in the purchase of historical works for the general library. A most judicious choice of about fourteen hun-

dred volumes has accordingly been made by the Professor of History.

Through Professor Adams also, three gentlemen, Mr. E. C. Hegeler of La Salle, Ill., Mr. J. J. Hagerman of Milwaukee, Wis., and President Andrew D. White of Cornell University, have also presented a peal of five bells, which have been placed in one of the towers of the new Library. It is expected that a clock will be placed in the tower and that the hours and quarter-hours will be struck upon the bells.

Mr. James McMillan of Detroit has given us a most valuable Shakspeare Library. It is well known that Hon. E. H. Thomson of Flint had for many years been making a choice collection of editions of Shakspeare and of books illustrative of the great poet's works. In order that this collection might be placed permanently in our library, Mr. Thomson consented to dispose of it for a sum much smaller than the valuation he had placed upon it and smaller than its cost to him. Mr. McMillan first gave us five thousand dollars, which enabled us to purchase the Thomson collection and to make important additions to it. He has since generously placed fifteen hundred dollars more at our disposal for making further additions to the collection. The McMillan Shakspeare Library will therefore contain about double the number of volumes which were in the Thomson Library, and will take high rank among the Shakspearean collections in America.

Now that we have a fire-proof Library Building and Art Gallery we may cherish the hope that other generous men will be inclined to imitate the example which these our benefactors have set. I think we may properly call attention to the desirableness of enlarging our collection in the Fine Arts. Our galleries for paintings and sculpture are admirably suited for this purpose.

I may state in this connection, as I do with gratitude, that the generosity of a few gentlemen in Detroit has placed the University on the list of institutions, which are sup-

porting the American School of Classical Studies at Athens. The school has been established to give graduates of American colleges an opportunity to study Classical Literature, Art, and Antiquities in Greece under proper direction. Fourteen American colleges are now coöperating in its support. By the contribution of something more than two thousand dollars by our friends in Detroit our graduates can now be admitted to the privileges of the school.

As usual our chief benefactor has been the State. The Legislature at its last session made the following appropriations, and with a heartiness, which merits and receives our warmest appreciation; for books for the library, 1883, \$7,500; 1884, \$7,500; for new boilers and connections, \$8,000; apparatus for the physical laboratory, 1883, \$1,500; 1884, \$1,500; assistants in mechanical laboratory 1883, \$1,000; 1884, \$1,000; apparatus for mechanical laboratory, 1883, \$1,500; 1884, \$1,500; apparatus for physiological laboratory \$2,000; homœopathic college, 1883, \$2,000; 1884, \$2,000; dental college, 1883, \$6,000; 1884, \$6,000; University hospital, 1883, \$3,500; 1884, \$3,500; homœopathic hospital, 1883, \$2,000; 1884, \$2,000; addition of a professorship in homœopathic college 1883, \$2,200; 1884, \$2,200. Total, 1883, \$37,200; 1884, \$27,200. The readiness with which for years the Legislatures have responded to our requests for assistance warrants the belief that we may rely upon the State to supply our most pressing needs. It will doubtless continue to be the policy of the Board of Regents to ask of the Legislature no help which is not imperatively needed to maintain the standing and usefulness of the University. But it should not be forgotten that if a University is discharging its true function, it can never cease needing large assistance. And especially should we aim to impress our alumni and other friends with the truth that when the State has done all that it can fairly be asked to do for the University, there is always ample opportunity for private benefactions to be most wisely and usefully bestowed. It would be a pity if the beneficence of the State should dry

up in Michigan those fountains of private generosity which in the East pour their welcome streams into the treasuries of the great schools of learning. The gifts which have this year been made to the library awaken in us the hope that the University may henceforth receive more abundantly than she has received in the past the visible tokens of that pride and interest in her, which we believe is cherished by the citizens of Michigan and by all her alumni.

The work of the last year in the Literary Department is deserving of special remark. While care has been taken to secure the usual thoroughness in those fundamental studies which are required in the first two years, more has been done than ever before in giving greater efficiency to the advanced studies of the last two years, and to the work of the increased number of graduate students. The average age of our undergraduates at the beginning of their third year in the University is something over twenty-one years. We have deemed it safe and wise to leave to them an almost unlimited freedom in the choice of their studies. This stimulates their enthusiasm in the pursuit of the studies they may elect. With few exceptions they study with a definite and high purpose and with an earnest spirit. We have found what is known in Germany as the "seminary" method of work to be peculiarly adapted to secure the best results in advanced work in certain branches, as for instance: history, political economy, finance, English literature, and some kinds of classical investigation. A small group of students, say ten, is organized for this kind of work. The plan generally followed is substantially as follows: At each meeting some one presents a carefully prepared paper on some assigned topic, a critique upon the paper is read by another member, and then all the others, who have been required to study upon the subject, discuss the topic in presence of the Professor who, himself, sums up the arguments in conclusion. This method is found to stimulate research to an unusual degree. Then the plan introduced last year of working on what has been termed

the "university system," bids fair to yield some excellent results. By this plan a student who has completed those fundamental studies which are absolutely required of a candidate for graduation may, at the beginning of his third year, be permitted to concentrate his work for the remaining two years on three branches, one being taken as his major or principal subject, and the two others as his minor or subsidiary subjects. The primary aim is to enable gifted men to advance very far upon certain chosen lines of work. Supposing them to have mastered the elements of various kinds of knowledge, it then furnishes them an opportunity to learn much of some few subjects rather than to spend their time in learning a little about each one of several branches. It allows them to study in a freer spirit and method than in the earlier part of the course. One year's work furnishes too few data to base a conclusion upon. But I am confident that if executed with care the plan will be most helpful to some of our most brilliant scholars. Our resident graduates do, in fact, generally work substantially on this plan. You must be gratified to notice that the number of this class of our students has nearly doubled during the last year. Their presence is always inspiring and helpful in the conduct of our undergraduate work. We now have so large facilities for guiding the studies of graduates that we are hoping, and not without good grounds, to attract hither an increasing number, not only of our own graduates, but also of the graduates of other institutions, whose means of giving advanced instruction are not so ample as ours.

We have this year pursued a more careful and formal and public method of examining candidates for higher degrees. Two or three hours were given to the final examination of each, and to the reading and defending, by the candidate, of an elaborate thesis. The programme of these examinations was printed and circulated in advance. The public were invited to the reading of the theses and to the examinations on them. I think that all who were present

will agree that the examinations were rigorous and searching. Seventeen candidates obtained the Master's degree. Some candidates for higher degrees failed on examination.

What has been said above concerning the advanced work both of undergraduates and of resident graduates should be understood as applying to the School of Political Science, which is considered as a part of the Literary Department, though maintaining for certain purposes a distinct organization. Students are not admitted to the School until after the completion of their "required studies, nor until the beginning of their third year of collegiate residence. Their work is pursued under the university system, for which the character of the studies is particularly suited. Fifteen undergraduates and three graduates were enrolled in that school. They pursued their studies with much enthusiasm. The following courses of instruction are specially included in the work of the school of Political Science, though they may be elected by any of the undergraduates: Political and Constitutional History, twelve courses; Economic Sciences, eight courses; Social, Sanitary and Educational Science, three courses; Constitutional Administration and International Law, six courses. The almost simultaneous organization of work of this character in several of our leading universities shows that the need of it is widely recognized.

One of the results of the fresh enthusiasm in our more advanced work has been the forming of associations, comprising undergraduates, graduates, and Professors, for the presentation and discussion of papers upon various subjects. Societies of this kind have been formed by those interested in philology, in historical and political science, in engineering, and in the natural and physical sciences. Their meetings are sustained with great interest. They serve to bring Professors and students into most profitable relations and actively stimulate original research.

I think no one can be familiar with the interior life of our Literary Department without perceiving that our ad-

vanced students are imbued with the spirit of genuine university work. They are not studying for marks or credits, but with a sincere devotion to learning are seeking in a most generous and earnest spirit the broadest and deepest culture attainable here.

For the last few years we have in our policy recognized a sharp line of demarcation between the work of the first two years and that of subsequent years. The former we have treated as gymnasial or academic; the latter we have aimed to shape in the large and free spirit of university work. The question has often been asked us why we do not altogether drop the former and confine ourselves to the latter, which our title of University seems to call us to prosecute. For myself, I wish that we might do so. If the high schools or the several colleges of the State could relieve us of the labor of the first two years, and send us the students as well prepared as they now are at the beginning of the third year, I should esteem it a good fortune to the University to be able to take them at that stage and carry them on through advanced courses in literature and science, or through the Professional Schools. But the high schools would find it impracticable to perform that duty, and the colleges could hardly be expected to part with their students at the end of the second year. The necessity therefore seems to rest on us of furnishing the gymnasial preparation as well as attempting to do all we can of the higher work.

The modest beginning which we made in furnishing to students of engineering and especially of mechanical engineering, instruction and practice in shop-work was most helpful to them. We shall be able to furnish much larger facilities to them during the coming year. It seems to be demonstrated by the experience of the technical and engineering schools that the aid furnished by the mechanical laboratory and the shop is of the greatest service to students, who are to be mechanical, civil or mining engineers, or architects.

In the Department of Medicine and Surgery the first class graduated which had been required to complete three terms work of nine months each. It is gratifying to note that the class was the largest ever graduated from that school. This demonstrates that the medical profession were fully ready for the step which we took in lengthening the time of study. I cannot but believe that they will sustain us in raising somewhat rapidly the requirements for admission, although hardly any schools in the country venture to insist on any special preparation or to establish so prolonged a course as ours. It cannot be questioned that the elevation of our standard of admission and work has brought us a better class of students. There is hardly a more pressing educational need than that of demanding a better education for physicians, to whom such great interests are entrusted.

An important and, I believe, a most useful step has been taken in the lengthening of the course in the Law School to two terms of nine months each. The bar of the country is manifesting an increased interest in the subject of legal education. The conditions of admission to the bar are, in many states, so low that persons of the most slender talent and education can easily meet them. The instruction usually given in offices is so meagre that the Law Schools are more and more relied on for the training of those who desire a thorough legal education. It seems to depend largely on the schools therefore to determine whether the standard of legal education shall be raised. This is a responsibility which the schools should meet in the heartiest spirit. There is much difference of opinion among Professors of Law concerning the best methods of instruction. But there can be no difference of opinion concerning the duty of a University Law School to organize and conduct its work so as to insure a high grade of professional education to its students.

The School of Pharmacy has been raising its standard of admission and grade of work, until now in these respects

it stands at the head of such schools in this country. It has about as many students as it can accommodate. The aim of its Faculty has been, by increasing the requirements of admission, to elevate the work rather than to enlarge the classes.

The Homœopathic Medical School has not, thus far, secured the attendance which was expected by its friends, although it has been treated generously by the Legislature and cared for with the greatest attention by the Regents. This fact is due partly to the competition of schools which bestow degrees on the completion of a much shorter course than ours, and partly, it must be confessed, from the unfriendly attitude of some who ought to be the friends of a Michigan school. The Regents can do no more than to administer in good faith, as they have done, the trust confided to them by the Legislature. It is hoped that the establishment of a new chair, that of Obstetrics and the Diseases of Women and Children, will strengthen the school. But unless the Homœopathic physicians of the State, at whose urgent solicitation the school has been founded and supported by the Legislature, generally give it their aid, it cannot in the highest degree accomplish the purpose for which it was organized.

The Dental School, though its means have proved to be a little too limited, has won for itself a high reputation. It is clear that the term should, as soon as possible, be lengthened to nine months. Some of the students now voluntarily remain nine months in one of the two years to complete their work. But as no regular provision is made for systematic instruction after the close of the six months' term, some embarrassment is experienced and the best results are not gained. As the law term has been extended, the Dental school is left in the anomalous condition of being the only department of the University, which has a short term. On every account it seems desirable to put it on the same footing in this respect as the other departments.

In accordance with a by-law recently adopted I beg leave to call your attention to the condition of our Museums, as indicated in the reports of the several curators, herewith submitted.

The only additions to the Museum of Fine Arts during the year have been the contributions of Dr. A. E. Richards, residing in Europe, to the Richards collection of Coins. This collection now contains about 850 specimens, chiefly of Greek, Roman and Byzantine coins. A catalogue of them has been prepared, though not printed. Our works of art in the form of large and small statuary, paintings, engravings and photographs number 237; the gems and medallions in the Horace White collection, and in the Governor Bagley collection, 1789. The total number of gems, medallions and coins is 2639. Now that so spacious and elegant rooms are to be provided for our Art collections in the new Art Gallery, it is to be hoped that we may receive valuable additions through the generosity of our friends.

In the General Museum are stored our collections in Mineralogy, Paleontology, Geology, Zoology and Ethnology. The work of recataloguing the mineralogical specimens is nearly completed. During this work about 800 new entries have been made. Numerous and valuable gifts have been received, and some specimens have been purchased. An annual appropriation for the increase of the collection could be wisely expended.

The paleontological specimens are arranged in biological order. During the year the whole collection of fossil plants has been investigated and arranged. A few valuable gifts have been received. Cases are needed for some of the largest specimens, which are suffering from exposure.

The curator of the zoölogical and ethnological collections reports that the work of making a scientific arrangement of our birds has engaged attention during the past year and is not entirely completed. About one hundred

and fifty species of shells from the East Indies have been identified. The chief addition has been a case of mammals and birds from Michigan, given by Mr. Hobson, our taxidermist. The ethnological collection still remains stored in the north wing of University Hall from lack of cases in the museum, but must soon be removed.

The work of classifying and mounting the botanical collections has been carried on during the year and is nearly completed. The curator urges certain additions to the collection for the purpose of illustrating instruction.

The Museum of the Department of Medicine and Surgery has been thoroughly examined and rearranged and recatalogued during the vacation. About 400 specimens have been added in two years. The accommodations for storing and displaying the collection are much too limited.

The Museum of the Homœopathic Medical College has received fifty dollars a year during the last four years from Dr. J. N. Eckel, of San Francisco. That sum has been chiefly expended for pathological specimens. Dr. Franklin and Dr. A. I. Sawyer have presented, the former one hundred, the latter eighty surgical specimens. More case-room is needed.

The Dental Museum has received but few additions this year, but it will be increased as soon as new cases can be provided.

The University is fulfilling the indispensable condition of prosperity by seeing its wants outrun its supplies. So vigorous a growth develops new needs. Even if they cannot all be met, it is well to keep them clearly before us.

We should have the full time of the Professor of Political Economy and Finance, who now divides his labors between us and another university. We ought to have an Instructor in English, who could give his labors largely to teaching elocution. There is a demand for instruction in the Oriental Languages and Literature. The zeal of one of our Assistant Professors of Modern Languages has provided instruction in Sanskrit for the last few years. There

are always students here who would be glad of an opportunity to take up Hebrew, especially as a preparation for their theological studies.

The day is not distant when some ampler provision of room must be made for the physiological and microscopical laboratories. They are now accommodated in the old Medical College, which has become too strait for the Department of Medicine and Surgery. The work in physiology and microscopy has been largely developed and expanded during the last few years, to the great advantage of our students, and the classes are overrunning the quarters assigned them.

It is much to be desired too that the physical laboratory should be transferred to the ground floor of some building. Many of the investigations and experiments in physical study can be successfully made only in rooms where there is less movement in the walls than is always found in the higher stories of any building. As our engineering classes are growing so rapidly, it may be worthy of consideration whether a building should not be erected, which would furnish accommodations to it and to the work in physics.

How earnestly the students desire a gymnasium is shown by their zealous efforts to raise money for its erection. They have already secured a considerable sum. I have no doubt that a gymnasium properly managed would contribute materially to preserving the health of our students.

Many of the friends of the University will be interested in hearing that the Christian Association, which is composed of students from all departments, has found its room too small for its convenience, and has purchased a lot in front of University Hall with the purpose of erecting there a stone building for its home. This society, which has been in existence many years, has been of great service in stimulating its members to lives of Christian fidelity. It is to be hoped that the good people of the State, who approve of its aims, will generously aid it in its attempt to provide it-

self with a commodious and permanent home. It is proper to state in this connection that in recent years four of the members of this Association have gone to China as medical missionaries, and a fifth is under appointment to enter on the same service next year, that another member, a colored woman, has gone to Africa on missionary duty, and that during the last year five other members have gone to Asia Minor as medical missionaries and teachers.

We are warned by the condition of our Treasury that, unless some permanent addition to our resources is furnished, we must resist all temptations to add any new departments of work to the University. Our General Fund sorely needs either enlargement or some relief from the drafts upon it. It is subjected to an increased drain by the appointment of every new instructor (except in the Homœopathic and Dental colleges) and by the addition of every new building, which is to be lighted, heated and kept in repair. If some of our Professorships could be endowed, a substantial relief would be afforded to this fund, which is proving inadequate to the increasing burdens it now has to carry.

Clearly our policy must now be to concentrate all our efforts in the development and improvement of the departments already organized. These may fairly be said to suffice for the public needs which this institution can be expected to meet. To strengthen these in the many ways which the progress of science, the development of other universities and our own experience will suggest and even render necessary, must be our care.

JAMES B. ANGELL.

Regent Grosvenor moved that the report, just read by the President, be accepted and printed in the minutes, and that the usual number of copies in pamphlet form be ordered for the use of the University. The motion was carried by the following vote:

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Grosvenor, chairman of Medical Committee, submitted the following resolution:

Resolved, That the following appointments in the Homeopathic Medical College made temporarily by the medical committee, to take effect October 1, 1883, are hereby made and confirmed by the Board.

Henry S. Obetz, M. D., Professor of Surgery and Clerical Surgery, salary of \$2,200 per year.

Newton Baldwin, M. D., Lecturer on Obstetrics and Diseases of Women and Childree at salary of \$1,600 per year.

The vote on the above resolution was as follows:

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Nays—None.

Regent Blair moved that, when the Board adjourn, it adjourn to 10 o'clock to-morrow morning, to enable the special committee on salaries to meet at 8:30 o'clock. Carried unanimously.

On motion of Regent Shearer the Board adjourned to to-morrow morning at 10 o'clock.

MORNING SESSION.

THURSDAY, November 8, 1883.

The Board assembled in the room of the President at 10 o'clock A. M., pursuant to adjournment. Present, the President, Regents Walker, Duffield, Van Riper, Grosvenor, Shearer and Blair.

Regent Duffield presented the following report and recommendations, which were accepted and adopted unanimously:

Your committee has read with great satisfaction the report of the School of Political Science as presented by Professor C. K. Adams, Dean for the current year, and recommend,

1. That the report be read to the Board.
2. That so much of it as may be thought best by the Dean of said school be printed in our minutes.
3. That the special thanks of the Board be given to the unknown donor of certain books for the use of this school, whose benevolence is only equalled by his modesty.

4. That such of the essays as may exhibit thorough original investigation, and be deemed worthy of such honor by the special Faculty of this department, be uniformly bound and deposited in the Library.

GEORGE DUFFIELD.

Professor C. K. Adams, Dean of the School of Political Science, presented and read the following report:

To the Honorable Board of Regents:

GENTLEMEN.—As Dean of the School of Political Science, I beg leave to present the following report concerning the work of the school during its second year.

The courses of instruction given were the same as those offered in the last Annual Announcement. A grouping of the studies shows that there were twelve courses in History, seven courses in Social, Sanitary, and Educational Science, and six courses in Constitutional, Administrative and International Law. Of these courses the following were given in 1882-83 for the first time: The course in the History of American Finance, the course on Public Scientific Surveys, the course on the Economic Development of Mineral Resources, the course on the Historical Development of Educational Systems and Methods, the course on the Government of Cities, the course on the History of Modern Diplomacy, and the course on Methods of Local Government in Europe and America. The studies offered for the first time during the past year, as well as those previously provided for, were open not only to the registered members of the school, but also to all students of proper advancement in the Academic Department of the University. The classes were in all cases attended by encouraging numbers.

In the course of the year was also organized a society known as the "Political Science Association," with the design of drawing together into more intimate and sympathetic intercourse the teachers and students of the school, and of encouraging by mutual contact the spirit of scholarly and original research. Papers were presented by the President of the University, and by several of the professors and students of the school. Reports were given at each meeting of books on Political Science either recently published or recently procured for the University Library. In April the School and the University, as well as the public, had the advantage of two excellent lectures delivered before the association by Wm F. Ford, Esq.; the editor of *Bradstreet's Journal* in New York. The first lecture, "The History of a City Treasury," was a philosophical exposition of the difficulties that arose

a few years since in the treasury of Philadelphia, and of their final adjustment. The second lecture, on "Municipal Government in the United States," was a discussion in similar spirit of the evils that have followed from unwise interference with municipal affairs by State legislatures. Mr. Ford's personal studies of the treasurer's accounts at Philadelphia gave peculiar interest and value to his opinions. Both of the lectures were received with much favor, not only by professors and students, but also by the public.

An interesting feature of the work of the year was the original investigation carried on by students in connection either with the association or with some one of the seminaries. In the prosecution of the studies referred to an effort was made to gain correct methods of independent investigation. So far as was practicable with the materials at hand reliance was placed on original sources alone. In this spirit several papers of a very creditable character were prepared. A study of "The Schools of Michigan during the Territorial Period," was founded chiefly on the newspapers of the time and on manuscripts kindly made accessible to the writer by their owners in Detroit and elsewhere. "A History of the Land Grants for Higher Education in the Northwest," was the result of an examination of the laws making the grants, and of all subsequent legislation in each of the States considered. The general study of this subject required not only considerable correspondence, but finally a personal inspection of documents in Lansing, Madison, Chicago, Columbus, and Indianapolis. A paper on "The Government of Chicago," necessitated a study of all the published reports, and also a personal examination in the city itself of the records of the auditor and comptroller. Also worthy of note were papers on the "Management of the Public Debt during the War of the Rebellion," "Taxation during the War of the Rebellion," "The Powers of the General Government over Commerce," "Criminal Legislation in New England during the Colonial Period," "The Origin and Development of the Budget," and "The History of the Appointing Power of the President." Besides these papers, all of which were prepared by applicants for higher degrees, several interesting studies from original sources were carried on by candidates for the degree of bachelor.

Of the students of the School who were examined at the end of the year for degrees, six took the degree of Master and one the degree of Bachelor. Three of those who received the Master's degree had not previously taken the degree of Bachelor. Of these, two were examined at the end of the fourth year, and one at the end of the fifth year of study in the University.

The work of the students of this School was carried on with some little difficulty, especially at the beginning of the year, by reason of

the lack of proper authorities in the University Library. Many of the courses offered were on subjects that had never before been taught in the University, and consequently it is not strange that the Library was found to be inadequate to the new wants. But these necessities have been greatly relieved by individual benevolence. Report has already been made to your Honorable Board of a goodly sum of money furnished for the purchase of needed books on the easy condition that the name of the giver should not be made known. Besides about fifteen hundred volumes purchased with the money so furnished, and selected with especial reference to the wants of teachers and students carrying on investigations, we have received about a hundred and thirty volumes and more than a hundred pamphlets from other persons who have taken an especial interest in the welfare of the School. The University is indebted for valuable gifts to the School from the mayors of Boston, Brooklyn, New York, Buffalo, Cleveland, Detroit, Indianapolis, Chicago, and St. Louis. Especial acknowledgment should be made of the active interest in our collection of books on Municipal Government taken by Dr. Green, Librarian of the Massachusetts Historical Society; W. E. Lucas, Esq., Private Secretary of the Mayor of New York; Hon. Sherman Rogers, of Buffalo; L. B. Swift, Esq., of Indianapolis; J. Q. A. Fritchie, Esq., of St. Louis; Sidney G. Eastman, Esq., of Chicago; and A. D. Hager, Esq., Secretary of the Chicago Historical Society. An effort has also been made to collect complete sets of the Reports of Superintendents of Public Instruction in the adjacent States. Though our efforts in this direction have not been completely successful, yet valuable and cheerful assistance has been rendered by the Superintendents of Instruction in Ohio, Indiana, Illinois, and Wisconsin.

A general survey of the work of the year would seem to encourage the belief that the School is doing a useful service. Of the twenty students who enrolled themselves in the School at the beginning of last year, nearly all carried forward their studies with an enthusiasm that is deserving of the highest praise. But the influence of the work done is not to be measured simply by the successes of those enrolled in the School. It has been thought, wisely as I think, that the instruction should generally be open to all students of the University who have the requisite time and qualifications for the work. Large numbers of students avail themselves of these privileges. The School therefore offers the two-fold advantage of such instruction as will be helpful to the masses of the students, and such also as will be profitable to that smaller number who desire to attain the highest proficiency.

A recent article in one of the prominent Reviews of Germany, in discussing the study of Political Science in America, devoted several pages to the School in this University. Our courses of study were reprinted from the Announcement, and, although the general spirit of the article was commendatory, attention was called to what the author regarded a predominance of studies in History. The implied criticism is probably not without justice. Before we can claim to have a perfectly symmetrical curriculum in the European sense, doubtless provision must be made for a number of new courses. It is highly desirable that instruction should be given in the Elements of the Science of Jurisprudence, in the History of Political Doctrines, and especially in Comparative Constitutional Law and Comparative Administrative Methods. One of the most important questions with which the rising generation will have to grapple is the Methods of our Administrative Service. But there is scarcely one of the European nations that has not had to contend with the same question, and that has not left a valuable experience either for our imitation or our warning. The work of no political school in America can justly claim to be complete until it has made provisions for bringing the methods and results of these experiences prominently before its students. It is probable, however, that these courses can be duly provided for, at no remote day, without any enlargement of the teaching force at present employed. But there is one need that cannot in this way be supplied. I refer to the desirability of instruction throughout the year in the subject of Political Economy. The engagement of Dr. Henry C. Adams terminates with the first semester, and consequently those students who are to come up for final examination in Political Economy at the end of the year are deprived of his instruction and guidance at the very time when they are most needed. However excellent the quality of instruction under the present arrangement, it is impossible either that all the instruction desirable should be given, or that students attain to the highest success in the courses actually provided for.

I regret to report that the adjustment of relations between the School of Political Science and the Academic Department of the University that was recommended by both the Faculties and approved by the Regents in May, 1882, has not completely removed all causes of embarrassment. Questions of jurisdiction in regard to the admission, direction, and examination of students were not defined with all the clearness that is desirable, and therefore some modification of rules now existing may be found necessary. It is not improbable that the subject will engage the early attention of the Faculty, and that the

result of their deliberations in the course of the year will be submitted to the consideration of your Honorable Board.

Respectfully submitted.

C. K. ADAMS,

Dean.

UNIVERSITY OF MICHIGAN, October 1, 1883.

On motion of Regent Grosvenor the report of the Dean of the School of Political Science was accepted and ordered printed in the minutes.

Regent Duffield presented and read the following report of the action of the Faculty of the Department of Literature, Science, and the Arts :

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN.—I have the honor to inform your Honorable Body that at the meeting held on the 5th day of the present month, the Faculty adopted the following amendments to the Rules Concerning Graduation on the University System, which amendments are respectfully submitted to your approval :

1st. That the third paragraph of the article concerning Graduation on the University System, found on pp. 61, 62, of the Calendar for 1882-83, be amended by striking out all after the word "work," in the third line from the bottom of p. 61, and by substituting for the words "his fourth year" in the third line of said paragraph, the words "*three and a half years*," and inserting "*Bachelor*" before "degree" in the second line.

The amended paragraph to read as follows :

"Any student working on the university system may be admitted to a special examination for a Bachelor degree at a date not earlier than three and a half years of residence at the University, the examination to be conducted under the direction of those officers of instruction with whom the student has pursued the major part of his work."

2d. Again,

That the third paragraph, concerning the acquirement of the Doctor's degree, found on p. 64 of the Calendar for 1882-83, be amended by substituting for the word "first" in the second line, the word "Bachelor;" and by striking out all after the word "degree" in the said second line.

Respectfully submitted,

P. R. DE PONT, Secretary.

November 6th, 1883.

On motion of Regent Walker the above report was accepted, and the recommendations contained therein were adopted unanimously.

Regent VanRiper submitted the following resolution, which was adopted:

In recognition of the kindness of the gentlemen making the valuable contributions to the University Library for the use of the School of Political Science, as referred to in the report of the Dean of that school.

Resolved, That the Secretary be requested to forward to each of those gentlemen a copy of that report, with the compliments of the Board, and their thanks for the valuable works presented.

On motion of Regent Shearer, the Board adjourned to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reconvened in the room of the President at 2 o'clock P. M.

Present—a full Board, except Regents Norris and Joy.

Regent VanRiper submitted the following preamble and resolution:

WHEREAS, The contractor of the Library Building is not prepared to turn over said building at this meeting of the Board; and

WHEREAS, There are certain matters of difference between the contractor and Building Committee, as to compensation for extra work,

Resolved, That the Committee on Buildings and Grounds be, and are hereby authorized, to adjust all such matters of difference and claims made by the contractor, and order payment for the amounts justly due said contractor, and to take possession of said building on behalf of said Board whenever they may deem it necessary or proper to protect the interests of the University.

The resolution of Regent VanRiper was adopted by the following vote:

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Walker, chairman of the Finance Committee, read the report of that Committee, which is as follows :

The Finance Committee of the Board of Regents herewith present the annual statement of the Treasurer of the University of the receipts and expenditures for the year ending September 30th.

The accounts and vouchers have all been carefully examined and checked under the direction of the Committee and found correct.

Three clerical errors, in no way affecting the balances and very slight discrepancies in classification of accounts which, in the change of officers, have incidentally occurred, have all been noted and a sheet embracing all will be filed with the Secretary.

The Committee take great pleasure in testifying to the faithfulness and devotion of the Secretary and the Treasurer to their duties, and to the accuracy of their work, and would say that their duties are most burdensome, and that relief in the shape of further assistance and in increased pay should be rendered as early as the Board can find means to do it.

The balance of \$45,327.58 in the treasury Sept. 30th was reduced on the 1st instant by the payment of the loan of \$4,000 maturing on that day, and by the payment of \$27,787, salaries, due also October 1st.

Estimates of the receipts and expenditures for the current year are submitted, and also a table comparing the estimates of receipts and expenditures for the past year with the actual receipts and expenditures, and columns showing the deficiency or excess of expenditures over estimates, and a column comparing the estimates for the current year, which we think will be of considerable interest.

The estimates for the current year are, of course, based on the history of the year past, with such changes taken into account as have been already ordered by the Board.

A review of the general condition of the finances would seem to indicate that, while a slight improvement has been made in the financial condition of the University, the utmost economy will be required, and, if possible, the pruning down of expenditures, before the Board will have a surplus for such equitable distributions in salaries and equipment among the Faculties and Departments as seem to be desirable and necessary.

Estimates of Receipts for the Year Ending Sept. 30, 1884.

Balance in Treasury Oct. 1, 1883.....	\$ 45,327 58
To be recd. for University Interest, three-quarters—five-quarters having been received in 1883.....	30,000 00
To be received from State, 1-20 Mill Tax.....	40,500 00
“ “ “ “ “ Homœopathic College.....	6,000 00
“ “ “ “ “ Law of '83.....	2,000 00
“ “ “ “ “ Professorship '83.....	2,200 00
“ “ “ “ “ General Library '83.....	7,500 00
“ “ “ “ “ Physical Laboratory '83.....	1,500 00
“ “ “ “ “ Mechanical “ “.....	1,000 00
“ “ “ “ “ Dental College '83.....	6,000 00
“ “ “ “ “ University Hospital '83.....	3,500 00
“ “ “ “ “ Homœopathic “ “.....	2,000 00
“ “ “ “ “ Sale of Dental College Supplies.....	500 00
“ “ “ “ “ Anatomical Material to other Michi- gan Colleges.....	500 00
To be received from sale of Medicines—University Hospital.....	340 00
“ “ “ “ “ “ Homœopathic Hospital.....	200 00
“ “ “ “ “ State for Library Building.....	15,000 00
“ “ “ “ “ “ Enlargement Steam Heating.....	4,000 00
“ “ “ “ “ Students' fees and Laboratory charges, etc.....	65,000 00
“ “ “ “ “ Interest on Bank account.....	250 00
Total estimates of réceipts.....	\$ 233,317 58

Estimates of Expenses.

For Salaries of Professors, Officers and Employees.....	\$ 131,000 00
“ Current expenses Dental College.....	1,500 00
“ “ “ Homœopathic Medical College.....	1,500 00
“ “ “ University Hospital.....	2,700 00
“ “ “ Homœopathic Hospital.....	2,000 00
“ Completion of Library Building.....	15,732 22
“ Alterations and repairs.....	3,000 00
“ Fuel and lights.....	10,000 00
“ Grounds.....	500 00
“ Insurance.....	1,000 00
“ The General Library.....	12,710 36
“ “ Removal of Library and expenses incidental thereto.....	500 00
“ “ Medical Library.....	500 00
“ “ Law “.....	500 00
“ “ School of Political Science.....	300 00
“ “ Annual Calendar and Regents' Proceedings.....	3,000 00
“ “ Postage.....	850 00
“ “ Anatomical Material Fund.....	3,000 00
“ “ Chemical Laboratory Supplies.....	7,000 00
“ “ Microscopical Department.....	250 00
“ “ Mechanical Laboratory.....	2,409 78
“ “ Astronomical Observatory.....	500 00

For the Engineering Department.....	500 00
" " Department of Physics.....	2,921 20
" " Physiological Laboratory.....	1,927 06
" " Museum.....	500 00
" " Payment of Loan.....	4,000 00
" Commencement Expenses.....	1,000 00
" Law " ".....	150 00
" Diplomas and filling same.....	600 00
" Printing other than Calendar and Regents' Proceedings.....	500 00
" Lease of water privilege.....	50 00
" Vouchers not presented, see above.....	291 41
" Advertising Department of Medicine.....	200 00
" " Law Department.....	200 00
" " Homœopathic Medical College.....	200 00
" " Dental College.....	200 00
" " School of Pharmacy.....	200 00
" " Literary Department.....	200 00
" Enlargement of Steam Heating.....	6,879 46
" Contingent Expenses.....	3,000 00
Balance forward September 30, 1884.....	9,346 09
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Total Estimates of Expenditures.....	\$ 233,317 58

SAMUEL WALKER,
E. O. GROSVENOR, } Committee.
J. J. VAN RIPER, }

To the Finance Committee of the Board of Regents:

GENTLEMEN:—Herewith please find statement of receipts and disbursements for the fiscal year ending September 30, 1883.

H. SOULE, Treasurer.

RECEIPTS.

Amount in Treasury October, 1st, 1882.....	\$	\$ 28,118 75
From State Treasurer for University Interest.....	47,257 58	
" " " State aid 1-20 Mill Tax, Act of 1873.....	40,500 00	
" " " Homœopathic Medical College,	8,000 00	
" " " Homœopathic College, addi- tional Professor.....	2,200 00	
" " " College Dental Surgery.....	4,500 00	
" " " University Hospital.....	2,625 00	
" " " Library Building.....	30,000 00	
" " " General Library.....	7,500 00	
" " " Homœopathic Hospital.....	1,500 00	
" " " Steam Heating.....	4,000 00	
" " " Physical Laboratory.....	1,500 00	
" " " Mechanical Laboratory.....	1,500 00	
" " " Assistant in Mech. Laboratory,	1,000 00	
" " " Physiological Laboratory.....	2,000 00	154,082 58
" Farmers' and Mechanics' Bank, Ann Arbor, loan, {	6,000 00	
	4,000 00	

From First National Bank, Ann Arbor, loan.....	6,000 00	
“ Board Auditors—account boarding of dependent children, Act of 1881.....	406 27	16,406 27
“ Insurance Policy, canceled.....		15 85
“ T. A. A. & G. T. R. R., Rebate on coal freight.....		9 20
“ M. C. R. R., Rebate on coal freight.....		334 61
“ First National Bank, Ann Arbor, Interest.....		576 26
“ Sale of Dental Material and Supplies.....		3,379 68
“ “ Anatomical Material.....		533 15
“ “ Medicine and Appliances at University Hospital.....		362 04
“ “ Medicine and Appliances at Homœopathic Hospital.....		283 08
“ Error in Vouchers last year paid.....		10
“ Reduction in Periodical, General Library.....		3 00
“ Duplicate Book sold, “ “.....		3 50
“ Miscellaneous sources.....		193 02

From Students, Fees. Laboratory Deposits, etc.:

“ Literary Department.....	16,915 00	
“ Law “.....	14 280 00	
“ Medicine and Surgery.....	12,925 00	
“ School of Pharmacy.....	2,890 00	
“ Chemical Laboratory.....	8,566 15	
“ Practical Anatomy.....	3,685 00	
“ Homœopathic Medical College.....	1,940 00	
“ Dental College.....	2,800 00	
“ General Chemistry.....	285 00	
“ Histology.....	570 00	
“ Microscopical Laboratory.....	186 00	
“ Diplomas.....	4,570 00	
“ Duplicate Diplomas.....	20 00	
		{ \$ 69,632 15
Less Fees refunded.....		{ 2,944 75

Students Fees, Net..... \$ 66,687 40

\$ 273,933 24

Disbursements.

Paid salaries of officers, professors and employees :

From General Fund.....	\$ 110,759 99	
“ Homœopathic College Fund.....	6,675 00	
“ Dental College Fund.....	6,500 00	
“ University Hospital Fund.....	1,575 00	
Total amount paid for salaries.....	\$125,509 99	
For Current Expenses.....	42,556 86	
“ Loans paid.....	12,000 00	
“ Homœopathic College special.....	1,046 85	

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From Dental College	special	1,823 19
" University Hospital	"	2,604 38
" Homœopathic Hospital	"	1,934 77
" Physiological Laboratory	"	72 94
" Physical	"	8 80
" Mechanical	"	90 22
" Library Building	"	38,741 38
" General Library	"	1,710 59
" Eye and Ear Ward	"	70 85
" Board of Dependent Children, special		434 84
" Balance in Treasury September 30, 1883		45,327 58
		<hr/>
		\$273,933 24

Receipts to the General Fund.

Balance in Treasury October 1, 1882		\$13,676 80
From State Treasurer :		
From State Aid 1-20 Mill Tax Act, '73	\$ 40,500 00	
" University Interest	47,257 58	
" Loans, Farmer's in Mechanic's Bank, A. Arbor,	6,000 00	
" " " " " " "	4,000 00	
" " First National " " "	6,000 00	
" Sale of Anatomical Material	533 15	
" First National Bank, A.A., interest on deposits,	576 26	
" T., A. A. & G. T. R. R., refunded on contract	9 20	
" M. C. R. R., refunded on contract	334 61	
" Insurance policy cancelled	15 85	
" Miscellaneous sources	193 02	
" Sale of Dental Material	\$ 3,379 68	3,379 68
" Cost of same	2,824 97	
		<hr/>
Net	\$554 71	
From students' fees	69,632 15	
Less refunded	2,944 75	66,687 40
		175,486 75
		<hr/>
		\$189,163 55

Disbursements from the General Fund.

Paid Salaries of officers, professors and employees	\$ 110 759 99
" Vouchers, Contingent	5,340 28
" " Alterations and repairs	3,334 39
" " Fuel and lights	9,558 68
" " General Library	671 20
" " Medical Library	434 98
" " Physics	120 32
" " Insurance	2,054 95
" " Postage	863 37
" " Grounds	302 08

Paid Vouchers, Physiological Laboratory.....	694 59	
" " Construction	845 14	
" " Furniture and Fixtures.....	186 81	
" " Histological Laboratory.....	60 62	
" " General Chemistry.....	227 65	
" " Law Library.....	207 34	
" " Microscopical Laboratory.....	222 66	
" " Advertising Pharmacy.....	100 75	
" " Botanical Laboratory.....	308 55	
" " Steam Heating.....	550 48	
" " Political Science.....	69 92	
" " Engineering Department.....	314 71	
" " Astronomical Observatory.....	488 49	
" " Advertising Medical Department.....	252 75	
" " Museum	883 03	
" " Mechanical Laboratory.....	326 68	
" " Chemical Laboratory.....	6,652 50	
" " Anatomical Department.....	2,926 23	
" " Dental Material.....	488 00	
" " Advertising Law Department.....	5 00	
" " Loans.....	12,000 00	
" " Transfers to special funds.....	1,861 72	
Balance in Treasury September 30, 1883.....	26,050 69	189,163 55

Special Funds.

HOMŒOPATHIC MEDICAL COLLEGE.

Balance in Treasury October 1, 1882.....	\$ 878 67	
Received from State Treasurer.....	8,000 00	\$ 8,878 67

DISBURSEMENTS.

Paid salaries of professors and employees.....	\$ 6,675 00	
Paid vouchers, current expenses.....	1,046 85	
Balance in Treasury September 30, 1883.....	1,156 82	8,878 67

Homœopathic Medical College Additional Professor Act 1883.

Received from State Treasurer.....	2,200 00	
Balance in Treasury September 30, 1883.....	2,200 00	

DENTAL COLLEGE.

Balance in Treasury October 1, 1883.....	\$ 1,761 64	
Received from State Treasurer	4,500 00	
Transferred from General Fund.....	1,740 72	
Balance overdrawn September 30, 1883.....	320 83	8,323 19

DISBURSEMENTS.

Paid salaries of professors and employees.....	\$ 6,500 00	
Paid vouchers for current expenses.....	1,823 19	8,323 19

ADJOURNED MEETING, NOVEMBER, 1883. 411

UNIVERSITY HOSPITAL.

Balance in Treasury October 1, 1883.....	620 33	
Received from State Treasurer.....	2,625 00	
Sale of Medicine and Appliances.....	362 04	
Balance overdrawn September 30, 1883.....	571 98	4,179 35

DISBURSEMENTS.

Paid salaries of Professors and employees.....	1,575 00	
Paid vouchers for current expenses.....	2,604 35	4,179 35

HOMEOPATHIC HOSPITAL.

Balance in Treasury October 1, 1882.....	1,296 94	
Received from State Treasurer.....	1,500 00	
Sale of Medicine and Appliances.....	283 08	3,080 02

DISBURSEMENTS.

Vouchers for current expenses.....	1,934 77	
Balance in Treasury September 30, 1883.....	1,145 25	3,080 02

LIBRARY BUILDING.

Balance in Treasury October 1, 1882.....	9,473 95	
Received from State Treasurer.....	30,000 00	
Received correction of errors in voucher.....	10	
Total receipts.....		39,474 05

DISBURSEMENTS.

Paid vouchers for construction.....	38,741 83	
Balance in Treasury September 30, 1883.....	7,32 22	39,474 05

EYE AND EAR WARD.

Balance in Treasury October 1, 1882.....		88 40
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DISBURSEMENTS.

Paid vouchers for current expenses.....	70 85	
Balance in Treasury September 30, 1883.....	17 55	88 40

GENERAL LIBRARY.

Balance in Treasury October 1, 1882.....	414 45	
Received from State Treasurer.....	7,500 00	
Received from sale of duplicate books.....	6 50	
Total receipts.....		7,920 95

DISBURSEMENTS.

Paid vouchers.....	1,710 59	
Balance in Treasury September 30, 1883.....	6,210 36	7,920 95

BOARD OF DEPENDENT CHILDREN.

Balance in Treasury October 1, 1882.....	28 57	
Received from Board of State Auditors.....	406 27	
Total receipts.....		434 84

DISBURSEMENTS.

Paid vouchers for Board of dependent Children.....		434 84
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SEWER.

Balance overdrawn October 1, 1882.....	121 00	
Transferred to General Fund.....	121 00	

MECHANICAL LABORATORY.

Received from State Treasurer.....		1,500 00
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DISBURSEMENTS.

Paid vouchers for current expenses.....	90 22	
Balance in Treasury September 30, 1883.....	1,409 78	1,500 00

MECHANICAL LABORATORY ASSISTANT.

Received from State Treasurer.....		1,000 00
Balance in Treasury September 30, 1883.....		1,000 00

PHYSIOLOGICAL LABORATORY.

Received from State Treasurer.....		2,000 00
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DISBURSEMENTS.

Paid vouchers for current expenses.....	72 94	
Balance in Treasury September 30, 1883.....	1,927 06	2,000 00

PHYSICAL LABORATORY.

Received from State Treasurer.....		1,500 00
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DISBURSEMENTS.

Paid vouchers for current expenses.....	8 80	
Balance in Treasury September 30, 1883.....	1,491 20	1,500 00

STEAM HEATING.

Received from State Treasurer.....		4,000 00
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DISBURSEMENTS.

Paid vouchers for current expenses.....	1,120 54	
Balance in Treasury September 30, 1883.....	2,879 46	4,000 00

RECAPITULATION.

Balances in Treasury September 30, 1883:

Homœopathic Medical College.....	\$	3,356 82	
Homœopathic Hospital.....		1,145 25	
Library Building.....		732 22	
Eye and Ear Ward.....		17 55	
General Library.....		6,210 36	
Physiological Laboratory.....		1,927 06	
Physical Laboratory.....		1,491 20	
Mechanical Laboratory.....		2,409 78	
Steam Heating.....		2,879 46	
		<hr/>	
		\$20,169 70	
Less overdrawn balances of Dental College....	\$320 83		
Less overdrawn balances of University Hosp'l	571 98	\$ 892 81	\$19,276 89
			<hr/>
General Fund Balance.....			\$26,050 69
			<hr/>
Total in Treasury September 30, 1883.....			\$45,327 58

Comparison of the Estimated and Actual Receipts and Disbursements for the Fiscal Year Ending September 30th, 1883, and Estimates for the Year 1884.

RECEIPTS.

	Estimated.	Actual.	Increase.	Decrease.	Estimate of Receipts for 1883-4.
Balance Oct. 1st, 1882.....	\$28,118 75	\$28,118 75			\$45,327 58
State Treas'r, Univ. Interest	38,000 00	*47,257 58	9,257 58		30,000 00
" " 1-20 mill tax.....	40,500 00	40,500 00			40,500 00
" " Hom. Med. Coll.	8,000 00	10,200 00	†2,200 00		8,000 90
" " Libr'y Building	45,000 00	30,000 00		†15,000 00	15,000 00
" " Dental Coll.	8,000 00	4,500 00		3,500 00	6,000 00
" " Univ. Hosp.	3,500 00	2,625 00		875 00	3,500 00
" " Hom. Hosp.	2,000 00	1,500 00		500 00	2,000 00
" " Physiol'cal Lab.		2,000 00	†2,000 00		
" " Mechanical "		2,500 00	†2,500 00		1,000 00
" " Physical "		1,500 00	†1,500 00		1,500 00
" " Steam Heating.		4,000 00	†4,000 00		4,000 00
" " Gen'l Library		7,500 00	†7,500 00		7,500 00
Sale of Dental Material.....	1,592 96	3,379 68	1,786 72		500 00
" " Anatomical "	500 00	533 15	33 15		500 00
" " Med's (Univ. Hosp.)	340 00	364 04	22 04		340 00
" " " (Hom. ")	130 00	283 04	153 08		200 00
Interest on Deposits.....	250 00	576 26	326 26		250 00
Students Fees. (Net.).....	70,000 00	66,687 40		3,312 60	65,000 00
Miscellaneous.....		559 28	559 28		
Board of Dependent Child'n		406 27	406 27		
Loans.....		16,000 00	16,000 00		
Homoeop. Prof., Law of 1883.					‡2,200 00
	245,931 71	270,988 49	48,244 38	23,187 60	233,317 75

* Five quarters.

† Special Legislative appropriation.

‡ Building not completed Sept. 30, 1883.

DISBURSEMENTS.

	Estimated.	Actual.	Increase.	Decrease.	Estimate of Expenses for 1883-4.
Salaries.....	132,180 00	125,509 99	3,329 99		131,000 00
CURRENT EXPENSES:					
Dental College.....	1,500 00	1,682 37	182 37		1,500 00
Hom. Medical College...	1,500 00	967 35		532 65	1,500 00
Univ. Hospital.....	4,000 00	2,604 35		1,395 65	2,700 00
Hom.	2,000 00	1,934 77		65 23	2,000 00
Library Building.....	54,473 95	38,741 83		15,732 12	15,732 12
Alterations and Repairs	3,000 00	3,334 39	334 39		3,000 00
Fuel and Lights.....	8,500 00	9,558 68	1,058 68		10,000 00
Grounds.....	500 00	302 08		197 92	500 00
Insurance.....	2,000 00	2,054 95	54 95		1,000 00
General Library, Books.	500 00	2,381 79	1,881 79		12,710 36
Medical " "	300 00	434 98	134 98		500 00
Law " "	300 00	207 34		92 66	500 00
School of Polit'l Science	300 00	69 92		230 08	300 00
Annual Calendar, etc. --	1,500 00			*1,500 00	3,000 00
Postage.....	800 00	853 37	53 37		850 00

DISBURSEMENTS—CONTINUED.

	Estimated.	Actual.	Increase.	Decrease.	Estimate of Expenses for 1883-4.
Anatomical Material.---	2,800 00	2,926 23	126 23		3,000 00
Chem. Lab. Supplies.---	7,868 42	6,652 50		1,215 92	7,000 00
Microscopical Dept.---	500 00	222 66		277 34	250 00
Mechanical Laboratory	500 00	416 90		83 10	2,409 78
Observatory.---	1,000 00	488 49		511 51	500 00
Engineering Dept.---	500 00	314 71		185 29	500 00
Department of Physics.---	500 00	129 12		370 88	2,921 20
Physiological Dept.---	1,242 85	767 53		475 32	1,927 06
Museum.---	500 00	883 03	383 03		500 00
Steam Heating.---	169 80	1,670 02	1,501 22		6,879 46
Advertising Med. Dept.---	200 00	252 75	52 75		200 00
" Law.---	200 00	5 00		195 00	200 00
" Hom. Med. Coll.---	200 00	79 50		120 50	200 00
" Dental.---	200 00	140 82		59 18	200 00
" School of Phar'y	200 00	100 75		99 25	200 00
Sundry expenses as follows:					
Adv. Lit. Dep. ---\$	200 00				
Commencement	1,000 00				
Law "-----	15 00				
Diplomas.-----	600 00				
Printing.-----	900 00				
Water Lease.-----	50 00				
Unp'd Contingent	903 69				
Contingent.-----	3,000 00				
Moving Library --	500 00				
	\$ 7,303 69				
General Chemistry\$	227 67				
Botanical Lab.-----	308 55				
Furniture.-----	186 81				
Histology Lab.-----	69 62				
Eye and Ear Ward	70 85				
Contingent.-----	5,340 28				
	\$ 6,203 76	\$ 7,303 69	\$ 6,203 76	\$ 1,099 93	
Contingent:					
Commencement --\$	1,000 00				
Law "-----	150 00				
Diplomas.-----	600 00				
Printing.-----	500 00				
Lease of Water					
Privilege.-----	50 00				
Vouchers not presented	291 41				
Adv. Lit. Dept.---	200 00				
Remov'l of Library and expenses incidental thereto	500 00				
Payment of Loan.---	4,000 00				
Contingent expenses.-----	3,000 00				
	\$10,291 41				\$10,291 41
Dependent Children -----					
Construction.-----		434 84	434 84		
Loans.-----		845 14	845 14		
Purchase of Dental Material		12,000 00	12,000 00		
Balance forwarded Sept. 30, 1884.-----		488 00	488 00		9,346 09
	227,238 71	225,660 91	22,861 73	24,439 53	233,317 48

* Bill unpaid Sept. 30, 1883.

On motion of Regent Shearer, the report of the Finance Committee was accepted and adopted, and ordered printed in the minutes.

On motion of Regent Grosvenor, chairman of the Medical Committee, the salary of Dr. W. H. Davis, Resident Physician in the Homœopathic Hospital was increased to four hundred dollars a year from Oct. 1, 1883, by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

On motion of Regent Grosvenor, the sum of fifty dollars was taken from the Homœopathic College fund, for the purchase of material for the pathological museum in that Department, by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

On motion of Regent Grosvenor, the following appointments were made in the Homœopathic College :

Henry C. Kasselman, M. D., to be Assistant to the Chair of Surgery. Salary, one hundred dollars a year.

Elmer J. Bissell, M. D., to be Assistant to the Chair of Principles and Practice of Medicine. Salary, one hundred dollars a year.

William D. Cooper, M. D., to be assistant to the Chair of Obstetrics. Salary, one hundred dollars a year.

Jay S. Mead, M. D., to be Assistant to the Chair of Materia Medica. Salary, one hundred dollars a year.

And that their salaries begin when they enter upon the duties.

The vote on the above appointments was as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Shearer, Chairman of the Committee on Buildings and Grounds, submitted the following resolution :

Resolved, That the coal house at the Observatory be changed into a barn, at a cost not exceeding one hundred and fifty dollars.

The vote on the above resolution was as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Regent Van Riper, Chairman of the Committee on Museum, submitted the following resolution :

Resolved, That Professor Steere be authorized to cause to be prepared and mounted by Mr. Ward, of Rochester, the Ant Bear or Great Ant-Eater of South America, and its young, at a price not exceeding forty dollars for both, and that an amount sufficient therefor be appropriated from the General Fund.

The resolution of Regent Van Riper was adopted by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Blair submitted the following resolution :

Resolved, That the following appointments, temporarily made by the Executive Committee, be confirmed and made by this Board:

First. George H. Howison, LL. D., Lecturer on Psychology, Logic, and Speculative Philosophy for the first semester of 1882-3, at a compensation of \$1,100.

Second. William Campbell, M. D., Assistant in Microscopy and General Histology, at a salary of \$300 per annum, services beginning October 1st, 1883, in place of Lorin Hall, M. D., resigned.

Third. Clarence G. Taylor, B. S., Assistant in the Mechanical Laboratory, at a salary of \$1,000 per annum, services beginning October 1st, 1883.

Fourth. T. J. Sullivan, M. D., Assistant to the Professor of Obstetrics and Diseases of Women and Children and Clinical Gynecology in the Department of Medicine and Surgery, services beginning October 1st, 1883, at a salary of \$200 per annum, it being understood that Dr. Sullivan may, without expense to the University, render such assistance to Professor Maclean as the Medical Faculty may approve.

Fifth. Margaret Humphrey, D. D. S., Assistant to the Professor of Clinical Dentistry, at a salary of \$400 per annum, in place of U. D. Billmeyer, D. D. S., resigned.

Sixth. W. G. Clarke, Assistant to the Acting Professor of Physics, at a salary not exceeding \$200.

The above appointments were confirmed by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Blair, Chairman of Select Committee on Salaries, submitted the following resolution :

Resolved : First. That the salaries now paid to the several persons named in this paragraph be increased as follows, to take effect at the beginning of the present collegiate year, viz.:

Elisha Jones, Associate Professor of Latin, to \$1,800.

Albert H. Pattengill, Associate Professor of Greek, to \$1,800.

Wooster W. Beman, Associate Professor of Mathematics, to \$1,800.

Calvin Thomas, Assistant Professor of German and Sanscrit, to \$1,600.

Elizabeth M. Farrand, Assistant Librarian, to \$600.

Second. That an additional janitor shall be employed for the Library Building, at a salary not to exceed \$500 per year, and such further assistance as may be needed in that building, under the direction of the Board of Audit.

Third. That J. W. Vance be and he is hereby appointed Assistant Librarian, to have charge of the Law Library, at a salary of two hundred and fifty dollars per year.

Regent Walker moved the adoption of the resolution of Regent Blair, which was carried by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Walker moved that the following communication from Professor Demmon be printed in the minutes. Carried unanimously.

Memoranda Touching the Question of Salaries, From the Proceedings of the Board of Regents.

[The reference at the end of each paragraph is to the page in the Records of the Regents' Proceedings.]

June 6, 1887. Ordered that salaries of Professors be not less than \$1,200 nor more than \$2,000..... (7 c)

Salary of Professor of Law to be \$2,000.....	(8 a)
June 21, 1837. Chancellor to have \$2,500 and Professors \$1,800 each....	(11 c)
Jan. 5, 1839. Principals of Branches to receive: At Kalamazoo, \$1,200; at Detroit, \$1,500.....	(44 b)
[From list of warrants, on page 82, it appears that the first warrant issued for salary was to George P. Wil- liams, Principal of the Branch at Pontiac, for one term, \$333.33 (Nov. 23, 1837.)].....	(82 a)
March 26, 1839. Principal of Detroit Branch asks for an increase of salary. Refused in an elaborate report.....	(57 b)
Oct. 1, 1839. Salary of Dr. Houghton fixed at \$1,500. [This was never paid as he did not enter on the duty of teaching.],	(76 c)
Dec. 18, 1839. Salary of one professor (Asa Gray), \$1,500. [This was paid one year, for services in collecting books for the Library while in Europe.].....	(79 c)
Jan. 14, 1840. Estimates—four professors, \$6,000.....	(87 c)
Feb. 7, 1840. Report of Committee of the Board on reducing ex- penses in the Branches. Salary question argued at length.....	(91-94)
Jan. 8, 1841. Aid to Branches fixed uniformly at \$500 each.....	(134 c)
Aug. 20, 1841. Salaries of Professors Williams and Whiting fixed at \$500 each, and tuition receipts of preparatory school, (153b-164b) House rent added, as appears at page.....	173 c
Oct. 4, 1842. Salaries of professors increased to \$600 each.....	(203 c)
April 2, 1844. Executive Committee recommend an increase of the salaries to \$700. [This appears to have been adopted, though no resolution to that effect is found.].....	(237 c)
April 17, 1845. Professor of Botany to be paid <i>pro rata</i> for time ac- tually engaged.....	(202 b)
Aug. 5, 1846. Professor of Chemistry to receive regular salary—\$700, Salaries increased uniformly to \$800.....	(292 a) (292 b)
July 24, 1848. Executive Committee report in favor of increasing salaries of all professors to \$1,000. Adopted.....	(336 b)
July 18, 1849. Executive Committee report in favor of granting \$150 a year to non-resident professors to cover house rent. Adopted.....	(399 a)
July — 1850. All salaries (including medical), \$1,000.....	(455 b)
Jan. 21, 1851. Committee appointed to report on salaries of Medi- cal Faculty.....	(472b, 474c)
Jan. 22, 1851. Salaries of Medical Faculty fixed at \$1,000, with no al- lowance for house rent.....	(478 b c)
Jan. 2, 1852. Committee authorized to offer \$1,500 and house to can- didates for the Presidency.....	(525 b)
Dec. 22, 1852. Chancellor's salary fixed at \$1,500.....	(544 b)
Salary of Professor of Greek at \$1,000.....	(544 c)
1853. Finance report shows salary of Chancellor to be \$1,500 and of professors to be \$1,000. Non-resident profes- sors allowed \$150 each for rent.....	(583 c)
May 4, 1854. Salary of President fixed at \$2,000 (and house).....	(591 c)
June 29, 1854. Salary of Dr. Brünow to be \$1,150.....	(596 a)
Oct. 19, 1854. Professors Douglas and Sager apply for an increase of salary. No action.....	(599 c)

Estimates for 1854-5 show salaries of professors in
Academic Department to be \$1,000, and rent, (\$150);
in Medical Department, \$1,000..... (608 a b)

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Dec. 19, 1855.	Salaries of professors in the Literary Department increased to \$1,200 and house rent.....	(12 b)
May 8, 1856.	Salaries of professors in the Literary Department increased to \$1,500—except those who are occupying professors' houses, who are to be paid \$1,250. President's salary to be increased \$250.....	(42 b)
June 25, 1857.	Assistant professors appointed with salary of \$800....	(103 b)
Sept. 29, 1857.	Assistant Professor Clark to be paid \$1,000 per annum, Professor A. D. White to be paid \$1,000 for the first year and \$1,500 thereafter.....	(105 c)

**Beginning With the Year 1858 the Proceedings of the Board
Were Printed. The Following References are to the
Printed Copy.**

Jan. 1, 1858.	Memorial of Medical Faculty for the extension of the Medical term to nine months, with corresponding increase of salary, taken up.....	(7 b)
March 25, 1858.	Salaries of assistant professors made uniform at \$1,000.....	(11 a)
Sept. 29, 1858.	Salary of Librarian increased to \$600..... [By the annual report of the Board of Regents to the Superintendent of Public Instruction, Dec. 22, 1858, it appears that, at that time, the President received \$2,500, per annum; the Professors in the Literary Department, each \$1,500; the assistant professors \$1,000; the professors in the Medical Department \$1,000.]	(32 c)
March 29, 1859.	Salaries in the Law Department fixed at \$1,000.....	(46 b)
March 31, 1859.	Policy of appointing assistant professors discontinued, and instructors to receive \$500 each.....	(54 a)
June 29, 1859.	D. V. Wood appointed professor at \$1,000 salary.....	(59 b)
March 27, 1860.	A committee appointed to report on extending the Medical term to nine months, with a corresponding increase of salaries to \$1,500.....	(75 c)
March 28, 1860.	Professor Wood applies for full professor's salary, (\$1,500.).....	
Dec. 20, 1860.	Motion to increase Professor Wood's salary to \$1,500 laid on the table.....	(103 a)
June 25, 1862.	Instructor Spence to receive \$800 salary.....	(149 c)
March 26, 1863.	Professor Wood's salary increased to \$1,500.....	(167 c)
June 25, 1863.	President's salary fixed at \$2,000.....	(179 c)
March 29, 1864.	Steward to devote his whole time to the business of the office—salary \$800.....	(31 a)
March 30, 1864.	The above salary of Steward reduced to \$700.....	(35 a)
March 28, 1865.	Two assistant professors appointed at a salary of \$1,000 each.....	(74 a, 82 c)
March 28, 1865.	Librarian appointed at a salary of \$1,000.....	(76 c)
June 27-8, 1865.	Two assistant professors appointed at a salary of	

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	\$1,000 each.....	(95 c-101 a)
Sept. 26, 1865.	Steward's salary increased to \$1,000.....	(130 a)
March 29, 1866.	Librarian's salary increased to \$1,500.....	(137 c)
" "	Salaries of the President and all officers of instruction in the Academic Department increased for current year by 15 per cent.....	(138 b)
Sept. 26, 1866.	The above increase renewed.....	(186 b)
June 25, 1867.	" " " "	(212 c)
March 28, 1868.	Salaries of all professors in the Academic Department who have rendered fourteen years continuous labor as professor to the University, increased to \$2,000	(266 b)
March 25, 1868.	Salary of the President increased to \$2,500 and house	(267 b)
April 1, 1869.	New schedule of salaries adopted as follows: (327)	
	President	\$3,000 and house
	Professors in Literary Department.....	\$2,000
	Assistant professors in Literary Department....	1,300
	Acting Professor of Greek.....	1,500
	Law and Medical Professors.....	1,300
	Dean of Law Faculty.....	300
	" " Medical Faculty.....	200
	Professor of Anatomy and Curator of Medical Museum, etc.....	2,000
	Professor of Pathology and Instructor in Auscultation	1,500
	Librarian.....	2,000
	Assistant in Chemistry and Demonstrator of Anatomy, each	1,000
July 26, 1870.	Salaries of professors in Medical Department increased to \$1,800 in view of separate lectures being given to women	(52 b)
Sept. 20, 1870.	Steward's salary increased to \$1,400.....	(78 c)
Jan. 3, 1871.	President Angell appointed at a salary of \$4,500 and house	(91 c)
June 27, 1871.	Three instructors appointed at a salary of \$1,000 each.....	(109 a)
July 11, 1871.	Salary of ten professors in Literary Department increased to \$2,500.....	(137 a)
	Acting Professor of Greek to \$2,000.....	(137 b)
Oct. 7, 1873.	Acting Professor of English Language and Literature appointed at a salary of \$2,000.....	(318 c)
March 24, 1874.	Librarian's salary reduced to \$1,500.....	(338 a)
	Salary of Professor of Physics reduced to \$1,500.....	(337 c)
May 12, 1875.	Salary of assistant professors increased to \$1,800.....	(436 b)
June 30, 1875.	Steward's salary increased to \$1,500.....	(452 a)
June 27, 1878.	Schedule of salaries adopted as follows:	
	President	\$3,750 and house
	Professor Frieze.....	\$2,400
	Professors in Literary and Medical Departments	\$2,200 each

Assistant Professors in Literary Department.....	\$1,600	
Professors in Dental Department.....	1,600	
" " Law "	1,500	
Acting Professor of Physics.....	1,600	
Steward and Treasurer, each.....	1,400	
Assistant Professor of Mathematics.....	1,500	
Instructors in Literary Department.....	900	
Librarian.....	1,000	
June 25, 1879. Salary of Assistant Professor of Mathematics in- creased to \$1,600.....		(389 c)
July 25, 1879. Librarian's salary increased to \$1,500.....		(401 c)

The following resolution, submitted by Regent Duffield, was adopted :

Resolved, That the Librarian be authorized to transfer our small Shakespeare collection, amounting to about one hundred volumes, to the McMillan Shakespeare Library, in exchange for volumes of equivalent value in that Library, but not especially Shakespearean in character.

Regent Duffield, Chairman of the Library Committee, submitted the following report and asked its adoption. The report was adopted by the Board unanimously :

The Committee on the Library would report that the rooms on the second floor of the new building be appropriated for Seminary purposes, as follows:

On the east side: Historical, Political, and Pedagogical.

On the west side: Classical, Philosophical, and English.

Instead of the resolution, p. 372, "That the room in the second story of the west wing be set apart for the Regents' Room, and be fitted up under the direction of the Committee on Buildings and Grounds," the resolution be amended so as to read, "the room in the first story of the east wing."

Regent Grosvenor, Chairman of Medical Committee, submitted the following resolution :

Resolved, That the sum of two hundred dollars, or so much thereof as may be necessary, be and is hereby appropriated for supplies in the Physiological Laboratory.

Carried by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Duffield presented and read a communication from Professor C. K. Adams, asking leave of absence from January 25th, next, to February 15th, for the purpose of giving a course of lectures at Cornell University, and, on his motion, the request of Professor Adams was granted.

Regent Walker moved that the room known as the Nydia room, in the North College building, be set apart as a reading room for newspapers and periodicals, and that the Steward be instructed to consult with the President and Librarian and make such alterations as may be deemed necessary.

The resolution was adopted by the full vote of the Board.

Regent Duffield presented and read a communication from Professor Spaulding relative to the purchase of a set of North American fungi for the use of the herbarium. On motion of Regent Grosvenor the communication was referred to the Literary Committee, with power to act.

Regent Van Riper submitted the following resolutions:

Resolved, That the Secretary be authorized to purchase of Dr. Hart the Mastodon head found in Ohio and now in his possession, for a sum not exceeding \$115.00, to be placed to the credit of said Dr. Hart, and paid in fees for tuition in either of the Medical Departments.

Resolved, That the specimen above mentioned be deposited in the General Museum building.

The resolutions of Regent Van Riper were adopted by a full vote, as follows:

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor, Chairman of Medical Committee, submitted the following communication, and moved that the request of Professor Sewall be granted.

To the Honorable the Board of Regents :

It is desired, as a valuable addition to the course in Physiology, to give to the Junior Medical Class an optional course of Practical Physiology, and it is requested that it be allowed to charge a fee of one dollar for each student choosing such a course, for the purpose of meeting the cost of material used; all such fees to be paid into the Treasury upon the certificate of the Secretary.

Respectfully,

HENRY SEWALL,

Professor of Physiology.

The motion was carried by the following vote :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor submitted the following resolution and moved its adoption :

Resolved, That the sum of \$300 be appropriated for new apparatus for the Histological Laboratory—\$225 for one of Beck's International Microscope stands, and \$75 for other needed accessories.

The resolution was adopted as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor moved that there be set apart for each Department a sum not exceeding two hundred dollars (\$200), to be used in advertising.

Carried unanimously, as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

Regent Grosvenor moved that there be taken from the appropriation to the General Library five hundred dollars (\$500), to be used in the purchase of books for the Law Library.

Carried as follows :

Ayes—Regents Walker, Van Riper, Grosvenor, Shearer, and Blair.

Nay—Regent Duffield.

Regent Grosvenor moved that the salary of the Assistant in the Laboratory of the Dental College be reduced to four hundred dollars after the first day of January, 1884.

Carried unanimously.

Regent Grosvenor, Chairman of the Medical Committee, submitted the following resolution :

Resolved, That keeping the clinical record in the Hospitals is regarded as a part of the duties of the assistants to the Professors, and no remuneration for this work shall be allowed, other than the salaries now paid.

The resolution was carried by the full vote of the Board.

Regent Walker moved that the sum of fifteen dollars be appropriated to pay for clerical help employed in checking up the accounts of the Secretary and Treasurer.

Carried as follows :

Ayes—Regents Walker, Duffield, Van Riper, Grosvenor, Shearer, and Blair.

Nays—None.

On motion of Regent Blair, the Board adjourned.

JAMES H. WADE,
SECRETARY.

SPECIAL MEETING.

1883.



UNIVERSITY OF MICHIGAN, }
December 12, 1883.

The Board of Regents assembled in the room of the President at 7 o'clock P. M.

Present—The President, Regents Walker, Duffield, VanRiper, Grosvenor and Shearer.

Absent—Regents Norris, Joy and Blair.

The meeting was called to order and opened by the President.

Several communications which had reached the President's hands, were, at his suggestion, referred to appropriate committees of the Board.

Regent Walker submitted the following communication:

To the Honorable the Board of Regents:

GENTLEMEN:—At your meeting in October, 1882, an appropriation of \$500 was made for the Department of Physics, (Proceedings, page 301): By direction of the Steward I ordered apparatus for this amount, and a little of it was received last year. But two bills of goods from Paris were outstanding when the new Steward entered office and he finds no balance to the credit of the Department; since the money has not been drawn, as the Treasurer's books will show, and it is only by oversight that the credit does not appear on the Steward's book, I respectfully request you to authorize the Steward to credit the Department of Physics with a sufficient amount to cover the two bills and the transportation charges, viz.:

Nov., 1882. E. Ducrelet & Co., through E. S. Ritchie & Sons.....\$183 44
 Nov., 1882. J. Duboscq, through E. S. Ritchie & Sons, estimated..... 205 00

Further, since many months, and often more than a year, will be required to import apparatus from Europe, I ask you to make an exception to the rule requiring all undrawn balances to be covered into the Treasury of the General Fund at the close of the year.

In view of this inevitable delay I suggest the advisability of authorizing the expenditure at an early day of at least a portion of the Legislative appropriation of \$1,500 for 1884, which will be available in a few days.

Yours respectfully,

CHARLES K. WEAD,

Acting Professor of Physics.

Regent Walker moved that the two unpaid bills referred to in the communication of Prof. Wead, be paid from the legislative appropriation for the Department of Physics for the year 1884. The motion was carried by the following vote :

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor and Shearer.

Nays—None.

Regent Shearer presented and read the following communication, from the Dean of the Department of Pharmacy :

To the Honorable, the Board of Regents :

GENTLEMEN:—By direction of the Faculty of this Department of the University, I now recommend to you Mr. William Kerr Higley for the degree of Pharmaceutical Chemist. Mr. Higley completed all the requirements for this degree, save an application for the same in June, 1878. Entering then upon college work in other Departments of the University, he has not made application for the degree until the present time.

Respectfully submitted,

ALBERT B. PRESCOTT, Dean.

Regent Shearer submitted the following resolution :

Resolved, That the degree of Pharmaceutical Chemist be conferred on William Kerr Higley, in accordance with the recommendation of the Dean of the Department of Pharmacy.

The resolution was carried unanimously.

The American Steam Gauge Company, of Boston, Mass., having presented the University with one steam engine Indicator, with attachments, one Pantograph, one Polar Planimeter, and two Standard Test Gauges, for the use of the Mechanical Laboratory ;

On motion of Regent Walker, the Secretary was instructed to transmit to the American Steam Gauge Company, the thanks of the Board of Regents, for their generous gift.

Regent Shearer presented and read the following communication from the Dean of the Department of Law :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF LAW,
December 12th, 1883. }

To the Honorable, the Board of Regents of the University of Michigan:

GENTLEMEN,—For some time past it has seemed to the Faculty of Law to be highly desirable that a considerable addition of books should be made to the Library of this Department, in order that it may be placed more nearly on an equality with the libraries of law schools of equal rank, and to the end that our students may have such facilities for individual research and investigation as will enable them to prosecute their studies with advantages equal to those afforded elsewhere. At the beginning of the year, so urgent were our necessities in this respect, that arrangements were made to partially meet our wants by the purchase of some much needed text-books, and of a set of the American Decisions. We were also compelled to expend about one hundred dollars in rebinding some of the books, which had been in constant use in the Library for years. In this way an indebtedness has been incurred of two hundred and fifteen dollars over and above the sum of five hundred dollars appropriated by the Board at its meeting on November 7th, 1883. This indebtedness was incurred prior to the making of such appropriation, and under a misapprehension of the facts, it being supposed that the Board had taken favorable action on a resolution appropriating the sum of one thousand dollars to the use of the Law Library.

The funds placed at our disposal have made it impossible for us to continue our set of the English Appellate Reports. It is

very desirable that the set should be completed by purchasing the Reports from the year 1875 to the present time. I therefore earnestly but respectfully recommend that an additional appropriation be made of the sum of five hundred dollars, to enable us to make the purchase of these much needed Reports, and at the same time meet the already incurred indebtedness of two hundred and fifteen dollars, which is as yet unprovided for.

Respectfully submitted,

C. A. KENT,
Dean.

Regent Shearer submitted the following resolution:

Resolved, That the sum of five hundred dollars be and the same is hereby appropriated from the General Fund for the purchase of books for the Law Library.

The above resolution was carried by the following vote:

Ayes—Regents Walker, Duffield, VanRiper, Grosvenor and Shearer.

Nays—None.

On motion of Regent Grosvenor the Board adjourned.

JAMES H. WADE,
SECRETARY.

MARCH MEETING.

1884.



UNIVERSITY OF MICHIGAN, }
March 25, 1884.

The Board of Regents assembled in regular session in the room of the President. at 10 o'clock A. M.

Present—the President, Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Absent—Regent Joy.

Regents Clark and Willett stated that they had filed their acceptance with the Secretary of State.

The meeting was called to order and opened with devotional exercises by the President.

The President stated that several communications had been received by him, and suggested their reference to the appropriate committees of the Board. It was so ordered.

On motion of Regent Grosvenor, the Executive Committee were instructed to report a recast of the Standing Committees of the Board.

On motion of Regent Duffield, Regent Grosvenor was added to the above committee.

On motion of Regent Blair, the Board adjourned to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled at 2 o'clock P. M.

Present—a full Board, except Regent Joy.

Regent Blair, chairman of the Special Committee to whom was referred the matter of revising the Standing Committees of the Board, presented and read the following report which was adopted unanimously.

Executive Committee.—The President, Regents Blair, Duffield, and Grosvenor.

Finance Committee.—Regents Grosvenor, Van Riper, and Willett.

Committee on Literary Department.—Regents Duffield, Van Riper, and Clark.

Committee on Law Department.—Regents Joy, Blair, and Willett.

Committee on Medical Department, Homœopathic College, and Dental School.—Regents Van Riper, Joy, and Shearer.

Committee on Library.—Regents Duffield, Van Riper, Willett, and the President.

Committee on Museum, School of Mines, and Astronomical Observatory.—Regents Van Riper, Blair, and Clark.

Committee on Chemical and Pharmaceutical Department.—Regents Joy, Shearer, and Blair.

Committee on Buildings and Grounds.—Regents Shearer, Grosvenor, and Joy.

Regent Blair presented and read the following report of the Faculty of the Department of Law :

To the Honorable, the Board of Regents of the University of Michigan :

The Faculty of Law respectfully report that the following named persons have completed the course of instruction in the Law Department, and passed all the required examinations, and they therefore recommend that the degree of Bachelor of Laws be conferred upon them.

Respectfully submitted for the Faculty.

CHARLES A. KENT, Dean.

George McClurg Anderson,
 Fred Holmes Atwood,
 George W. Ayres,
 Edward Mack Bailey,
 Herbert Wells Baird,
 Harry J. Baker,
 Eben Clark Barton,
 Philander Ephraim Berry,
 Charles Willis Blake,
 Hugh Pierce Borden,
 Will Howard Bristol,
 John Holton Brown,
 Norman Buck,
 Lincoln Eugene Buell,
 Vernon Alvord Bullard,
 William Henry Burgess,
 Charles Elmers Buroker,
 Eckstein Case,
 James Cavanaugh,
 George Hill Chaffin,
 Caius Adrian Chapman,
 Preston Warren Charles,
 Frank Herbert Clark,
 Charles James Conlon,
 John Considine,
 Walter Freeman Cooling,
 Willums Franklin Costello,
 George Jesman Cowing,
 John James Creighton,
 John Walsh D'Arcy,
 Richard Millard Dott,
 Edward Francis Duffy,
 Thomas John Dundon,
 William Henry Eastman,
 Reuben Willets Edwards,
 John Pratt Elkin,
 George Washington Fowler,
 Takanori Fujikawa,
 James Allen Fullenweider,
 Lucius Willard Gosselin,
 James Luther Greeley,
 John Andrew Guttery,
 William David Guttery,
 George Miller Hartman,
 Frank Healy,
 Hartley Eugene Hendrick,
 John Hessian,
 Linnie Higgs,
 Charles Pomeroy Hill,
 George Lemuel Hilliker,
 David Rudolph Hirschler,

Edwin Alexander Hogg,
 John Harry Holmes,
 Will T. Jamison,
 Richard Hartwell Johnson,
 Arthur Jones,
 Thomas Calvin Jones,
 Charles Watson Kellogg,
 Ausie N. Kimmis,
 James Henry Kinnane,
 William Lawson,
 Frank Bruce Leland,
 Benjamin Lindsay,
 Thomas H. Loller,
 Charles William Long,
 Charles Jay Lowrie,
 Jacob Manheim,
 Enoch George Mauritzon,
 James Joseph McCarthy,
 James Lawrence McClear,
 George B. McLane,
 James William Meiklejohn,
 Caleb Stabler Miller,
 Charles Wesley Miller,
 Edward Joseph Nadeau,
 Frederick Folger Ninde,
 Francis Joseph O'Connor,
 John Wakeley Patchin,
 Carroll Hathaway Parmelee,
 William Thomas Perkins,
 Joseph Kirk Persons,
 John Phelan,
 Edward W. Phelps,
 Arthur Lincoln Preston,
 Jacob Tome Preston,
 Harvey Abram Price,
 Fred Reynolds,
 Issie Joseph Ringolsky,
 Henry H. Rolapp,
 Edson Madison Rowley,
 Edmon D. Sackett,
 Thomas Clovis Sawyer,
 Bishop Hovey Schriber,
 William Weller Shearer,
 Leon M. Sherwood,
 Harry H. Smith,
 Richard Washington Smith,
 William Hamilton Spence,
 Henry Frederick Stapel,
 James Lewis Stewart,
 Mark Alston Stiver,
 William Sturgeon,

David Hathaway Swaim,
 William Thomas Toy Swaim,
 Homer Milton Swope,
 Edward Thomas Taylor,
 Nicholas Van Epp,
 George Henry Vaughan,
 William Hosea Vesey,
 Jesse Vickery,
 Leon Hazelton Wadsworth,

Thomas Perkins Weir,
 Zachariah Fletcher Wharton,
 Walter Adelbert White,
 James Edgar Wilson,
 Frederick Bissell Wood,
 Samuel Kline Woodworth,
 Edgar Bruner Wright,
 Richard Yates,
 William Christian Yost.

Regent Blair submitted the following resolution :

Resolved, That the degree of Bachelor of Laws be and is hereby conferred upon each of the persons named in the above communication from the Dean of the Law Faculty, in accordance with the recommendation of that Faculty.

The resolution was adopted by the full vote of the Board.

Regent Grosvenor presented and read the following report of the Faculty of the College of Dental Surgery.

To the Honorable, the Board of Regents of the University of Michigan :

The following named persons have complied with all the requirements, and are hereby recommended by the Faculty of the Dental College for the degree of Doctor of Dental Surgery.

Respectfully submitted.

J. TAFT, Dean.

Thomas Allen,
 Rowland William Bailey,
 Coldwell Corydon Beebe,
 William Cleland,
 Charles Maclean Cunningham,
 Lyndall Llewellyn Davis,
 Louis Robert Esau,
 Clarence James Hand,
 Edson Lewis Hutchinson,
 Louis Manning James,

Joel Dart Jones,
 Ezra Lincoln Kern,
 Donald Douglas Magill,
 Louis James Mitchell,
 Minnie Ferris Mosher,
 George Eddy Sanders,
 Frank Germain Seger,
 John James Taylor,
 Francis Wayland Temple,
 James Edward Winans.

Regent Grosvenor submitted the following resolution, which was adopted unanimously :

Resolved, That the degree of Doctor of Dental Surgery be and is hereby conferred on the persons named in the foregoing recommendation of the Faculty of the Dental College.

Regent Shearer, chairman of the Committee on Buildings and Grounds, presented and read the report of the

Board of Health, setting forth the results of their inspection of the new Library Building as required by law. The Board express themselves as greatly pleased with the building in all its appointments, and do not suggest any material changes.

On motion of Regent Shearer, the report was accepted and ordered placed on file.

On motion of Regent Shearer, the report of the Library Committee, setting forth the need of book cases in the cataloguing room, curtains for windows in the book room, and wall cases in the coin room, was referred to the Committee on Finance and the Committee on Buildings and Grounds, jointly. Also, the matter of an appropriation for medical periodicals was referred to the same committees.

Regent Duffield presented and read the following communication from Dr. Cooper, and on his motion the communication was received and ordered placed on file :

NEW BRUNSWICK, NEW JERSEY, }
January 31, 1884.

To the President and Regents of Michigan University :

HONORED SIRS,—When you did me the honor of an election to the Chair of Philosophy in your Institution, I saw only two obstacles to its acceptance. These were :

The doubt of my ability to fill a Chair which had been held by such a line of distinguished men, and which involved a change in my subject of teaching. The other was the difficulty of selling my house—owing to the financial condition of this city—at any price.

But, appreciating the cordial spirit of the President and Regents, and feeling sure that the hand of Providence had brought about the call, I determined to risk any loss in the disposal of property ; while to obviate the first difficulty as far as possible, I had begun at once a most earnest special preparation for the duties of the Chair. Yet, when these, the only obstacles apprehended, had been so far obviated that I offered my resignation here with a view to my removal to Ann Arbor, an unfore-

seen hindrance arose. The President—to whom I am devotedly attached—and the Trustees of Rutgers College refused to accept my resignation; and with earnest persistence have besought me, in consideration of the *present condition* of the College, to withdraw it.

My convictions of duty to myself, my hopes of usefulness, and strong desire to be associated with Michigan University, are all unchanged. But it has always been easier to sacrifice my own advantages and wishes than do, what my friends say, will injure them. Hence, I am constrained to deny myself the honor of accepting a place more to my liking than any other that could be offered.

For the great courtesy you have shown, the patience you have wasted on my unavoidable delay, and your kindness to me in every way, I cannot sufficiently express my heartfelt thanks and appreciation.

With fervent prayers and all good wishes for you and your great University, I conclude by hoping that my loss will be far more than compensated by your gain, while giving place to some one who will do for you more and better work than could be in the power of,

Your devoted servant,

JACOB COOPER.

TO JAMES B. ANGELL, LL. D., President,
HON. LYMAN D. NORRIS,
HON. SAMUEL S. WALKER,
HON. GEORGE DUFFIELD, D. D.,
HON. JAMES F. JOY,
HON. AUSTIN BLAIR,
HON. JAMES SHEARER,
HON. JACOB VAN RIPER,
HON. EBENEZER O. GROSVENOR.

Regent Duffield, chairman of Committee on Literary Department, presented the following communication from the Faculty of the Literary Department, and moved the adoption of the resolutions.

March 18th, 1884.

To the Honorable, the Board of Regents:

Gentlemen.—I have the honor to set before you the following resolution, which the Faculty has adopted, and respectfully asks you to sanction:

Resolved, As to the feasibility of admitting without examination the graduates of High Schools and Academies outside of this State:

1st. That it seems desirable to extend the privileges that are granted to the schools of our own State, to those of other States on equal terms;

2d. That whenever it is found impracticable,—on account of distance or for any other reason—for a committee of the Faculty to visit any school, the Faculty may designate other persons to constitute the Committee of Inquiry.

Respectfully submitted,
P. R. DEPONT, Secretary.

The above resolution was approved by the full vote of the Board.

On motion of Regent Blair, the resignation of Henry Wulf, Assistant in the Chemical Laboratory, was accepted to take effect March 31st, 1884.

Regent Blair presented the following communication from the Dean of the Pharmacy Department:

UNIVERSITY OF MICHIGAN, }
DEPARTMENT OF PHARMACY, }
ANN ARBOR, Mich., March 24, 1884. }

To the Honorable, the Board of Regents :

Gentlemen.—To fill the vacancy caused by the resignation of Mr. Wulf, Assistant in the Chemical Laboratory, I beg leave to recommend the appointment of *Mr. Edward Demill Campbell*, as *Assistant in the Chemical Laboratory*, at the salary of the previous incumbent, one hundred and thirty dollars a year [Minutes of the Board, 1883, p. 351], this appointment to have effect from April 1, 1884, until the close of the college year, 1884-5.

Respectfully submitted,
ALBERT B. PRESCOTT,
Professor in charge Chem. Lab.

On motion of Regent Blair, the appointment of Edward D. Campbell, as Assistant in the Chemical Laboratory, to take effect April 1st, '84, was confirmed by the following vote:

Ayes—Regents Duffield, VanRiper, Grosvenor,] Shearer,
Blair, Clark, and Willett.

Nays—None.

Regent Willett presented the following communication from Col. E. H. Thomson :

FLINT, January 11, 1884.

PROFESSOR ISAAC N. DEMMON, Ann Arbor :

Dear Sir.—I send you, by express, for the University of Michigan, my "Warwick Portrait of Shakespeare" and two medallions, Shakespeare and Garrick, and hope they will arrive without any mishap.

You ask me in your kind note of the 7th instant, "to put in writing such particulars as I know about each piece," and although I cannot say with old Polonius, "since brevity is the soul of wit," I will be brief.

The portrait of Shakespeare I purchased at Stratford-on-Avon, after visiting Warwick Castle, and having had pointed out to me the original. At the time, 1851, I was connected with the American division of the Great Exhibition. The name of the author I have forgotten, but you will easily find it among the collection of the portraits of Shakespeare. It is a perfect *fac-simile* of the original, even to the frame with the coat-of-arms of Shakespeare. I much prefer it to that of Droeshout, although his friend and brother dramatist, Ben Jonson, says under the engraving in the first folio of 1623 :

"This figure that thou here seest put
It was for gentle Shakespeare cut ;
Wherein the graver had a strife
With Nature to outdo the life.
O, could he but have drawn his wit
As well in brass as he hath hit
His face, the print would then surpass
All that was ever writ in brass."

The famous Chandos portrait and what are called the Stratford busts, never had the value to them that the Warwick portrait has,—but this is simply my opinion.

The medallions were presented to me a quarter of a century ago by the celebrated comedian, Wm. E. Burton, and purported to be copies of those suspended from the walls of the Garrick Club in London. They were given to Burton by the tragedian Macready on his first visit to this country, and Burton has copies made from them while acting in Philadelphia.

As to the bust of Shakespeare in wood, that was also given to me by Burton, who valued it very highly ; but whether it is a veritable piece of wood from the destruction made by the infamous parson Gastrell, who doomed himself to eternal shame, more than the fool who fired the Ephesian temple, by destroying

the trees surrounding Shakespeare's home at Stratford-on-Avon, this deponent is ignorant.

Accept sincere regards,

Faithfully yours,

E. H. THOMSON.

Regent Willett moved the acceptance of the gifts presented by Col. Thomson, with thanks of the Board. Carried unanimously.

Regent Blair presented the following communication :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF PHARMACY, }
ANN ARBOR, MICH., March 24, 1884. }

To the Honorable, the Board of Regents :

Gentlemen.—Several months ago, the Department of Pharmacy was informed by Messrs. W. H. Schieffelin & Co., of New York, of their design to present to the School a cabinet of representative crude drugs and their medicinal preparations. Considerable correspondence has since passed between Messrs. Schieffelin and this School, regarding the selection of articles for this cabinet, and portions have been received from time to time. So far, 433 *specimens* have been received; including 283 *typical crude drugs*, and 150 *standard articles of chemical manufacture*. It only remains for the donors to obtain certain of the more rare articles and some special preparations of the list, when this most serviceable gift will be completed. It constitutes a fine pharmaceutical addition to the Museum of Applied Chemistry—an addition which has been very much needed for the constant studies of students.

Respectfully,

ALBERT B. PRESCOTT,

Dean of the Faculty.

Regent Blair submitted the following resolution, which was carried unanimously :

Resolved, That the thanks of the Board of Regents be, and are hereby tendered to Messrs. W. H. Schieffelin & Co., of New York, for their very useful and acceptable gift to the School of Pharmacy, of this University, of specimens of representative crude drugs and their medicinal preparations, for the cabinet of that school.

That the Secretary be instructed to send a copy of this resolution to Messrs. Schieffelin & Co.

At the request of Regent Duffield, Professor Demmon read a memorial setting forth the need of additional help in the department of English, which, on motion of Regent Grosvenor, was referred to the Committee on Literary Department.

On motion of Regent Van Riper, the Board went into executive session. At the close of the executive session, the business of the open session was resumed.

Regent VanRiper presented and read a communication from Professor George S. Morris, asking leave of absence for the first semester of the next academic year, in order to give a course of lectures at Johns Hopkins University.

On motion of Regent VanRiper, the request of Professor Morris was granted, on condition that no remuneration shall be allowed during his absence from the University.

Regent Shearer submitted the following resolution :

Resolved, That the Executive Committee and the Committee on Literary Department, jointly, be requested to consider, and report their conclusions at the June meeting of this Board, whether it would not be wise to appoint an Assistant to the chair of Philosophy, rather than a full Professor; and also to consider the advisability of the University retaining the services of H. C. Adams, Professor of Political Economy, for the full college year, instead of half the year as at present.

The above resolution was adopted by a full vote.

Regent Duffield presented and read a communication from the Acting Professors of Physics, Metallurgy and Botany, relative to change of title and increase of salary. No action was taken on this communication.

Regent Grosvenor moved that all matters relating to an increase of the salaries of law professors, be referred

to the Law Committee, to report at this meeting. Carried.

Regent Grosvenor submitted the following resolution:

Resolved, That the question of enlarging and fitting up the wing on the west end of Dental College, to be used as a class-room, be referred to the Finance Committee, and that the question of extending the term of the Dental School to nine months be referred to the Medical Committee for consideration.

The above resolution was adopted.

On motion of Regent Grosvenor the question of paying Professor M. E. Cooley four hundred dollars on account of the University as salary was referred to the Select Committee on Salaries.

On motion of Regent Grosvenor the Board adjourned to 7:30 P. M.

EVENING SESSION.

The Board was called to order at 7:30 P. M.

Regent VanRiper presented and read a communication from Professors Winchell and Pettée, asking an appropriation for the purchase of lathe for cutting and grinding rock and fossil specimens, and submitted the following resolution.

Resolved, That one hundred and fifty dollars (\$150) be appropriated out of the General Fund for the purchase of a lathe for cutting and grinding specimens, for use in the department of Geology and Economic Geology.

The above resolution was adopted by the following vote:

Ayes—Regents Duffield, VanRiper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

Regent VanRiper presented James Appleyard's bill for fifteen hundred and forty-three dollars and fifty cents (\$1543.50) for extra work claimed to have been done on

the Library building. And on his motion it was referred to the committee on Law Department and the Committee on Buildings and Grounds, jointly.

On motion of Regent Duffield the memorial of Professor Demmon for additional help in the department of English was referred to the Executive Committee, with instructions to report at the June meeting of the Board.

Regent Shearer submitted the following resolution:

Resolved, That the sum of one hundred and eighty dollars (\$180), or so much thereof as may be necessary, be appropriated for the purchase and erection complete, of one twenty-two inch Vertical Drill-Press for use in the Mechanical Laboratory.

The above resolution was carried by the following vote:

Ayes—Regents Duffield, VanRiper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

Regent Shearer submitted the following resolution and moved its adoption:

Resolved, That the Auditing Board be, and are hereby authorized to pay the amount of the present indebtedness of the Medical Department of the General Library for periodicals, the sum being one hundred and two dollars (\$102). Also said Board are hereby directed to audit bills not to exceed thirty dollars (\$30), on or about June 30th, 1884, for medical works to be received on subscription.

The resolution was carried by the following vote:

Ayes—Regents Duffield, VanRiper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

Regent Grosvenor submitted the following resolution:

Resolved, That one hundred dollars, or so much thereof as may be necessary, be appropriated from the General Fund for the purpose of properly advertising the School of Political Science.

The resolution was adopted by the following vote:

Ayes—Regents Duffield, VanRiper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

On motion of Regent Shearer, the Librarian was directed to permanently close and lock the water closets in the west side of the library building.

Regent Grosvenor moved that the account of Regent Duffield of thirty-six dollars and fifteen cents (\$36.15), incurred in going to Boston to confer with the special committee charged with filling the Chair of Philosophy, be allowed.

The motion was carried by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

Regent Blair, chairman of the special committee to whom was referred the matter of increasing the salaries of the law professors made a report on the subject and submitted the following resolution :

Resolved, That the Secretary of the Board of Regents be, and he is hereby instructed to pay the salaries of the law professors for the present collegiate year with such additions thereto as the increase of the length of time service may require as compared with the salaries heretofore paid. Provided that no permanent increase of the salaries is intended thereby, and the whole subject will be left open for future action.

The resolution was adopted by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—none.

Regent Van Riper presented the bill of Robert Clark of Cincinnati, of one hundred and twenty-eight (\$128) dollars, for books furnished the Dental College in 1881, which on motion of Regent Grosvenor was referred to the committee on Medical and Dental Departments.

On motion of Regent Grosvenor the Auditing Board

was instructed to place in the General Fund all money received from the sale of an old engine.

Regent Shearer submitted the following resolution :

Resolved, That the Auditing Board be, and are hereby authorized to have the following works and purchases made, viz.: A case for books for reference to cost not to exceed \$15. Also a plain case for books in the work room to cost not to exceed \$40. And to purchase cheap stuff for curtains for such windows of the book room and the administration room as it may be necessary to have shaded in order to preserve the books, at a cost not exceeding \$50.

The above resolution was adopted by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Clark and Willett.

Nays—none.

The following resolution was submitted by Regent Shearer :

Resolved, That Thomas Slater, or such other suitable person as the Librarian may select be, and is hereby appointed to take care of the cloak room on the west side of the library, to date from March 3d, last, until his services shall not be required—and that his salary shall be at the rate of \$3.00 per week for such service.

The resolution of Regent Shearer was adopted as follows :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Clark and Willett.

Nays—none.

Regent Van Riper moved that the matter of seating and furnishing the Regents' room in the library building be referred to the committee on Buildings and Grounds. The motion was carried by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Clark and Willett.

Nays—none.

On motion of Regent Shearer the Library Committee

of the Literary Faculty were authorized to decide all questions relating to the occupancy and use of rooms in the new library Building.

On motion of Regent Shearer the President was requested to transmit the thanks of this Board to the following named donors of valuable gifts of tools and machines presented to the Department of Mechanical Engineering :

Dean Steam Pump Company of Holyoke, Mass.

George F. Blake Manufacturing Company, Boston, Mass.

Hancock Inspirator Company, Boston, Mass.

Union Water-Meter Company, Worcester, Mass.

Westinghouse Air Brake Company, Pittsburg, Pa.

Bureau of Steam Engineering, Navy Department, Washington, D. C.

On motion of Regent Blair the Board adjourned to 9 o'clock to-morrow morning.

WEDNESDAY, MARCH 26.

The Board reassembled in the room of the President at 9 o'clock, A. M.

On motion of Regent Shearer the Board adjourned.

JAMES H. WADE,

Secretary.

JUNE MEENTIG.

1884.

UNIVERSITY OF MICHIGAN, }
Tuesday, June 24, 1884. }

The Board of Regents assembled in regular session in the room of the President at 10 o'clock A. M.

Present—the President, Regents Van Riper, Grosvenor, Blair, Clark and Willett.

Absent—Regents Duffield, Shearer and Joy.

The Board was called to order, and the meeting opened with devotional exercises by the President.

On motion of Regent Van Riper the minutes of the last meeting were approved as printed.

A number of communications which had reached the President were, at his suggestion, referred to appropriate committees of the Board.

On motion of Regent Blair the Board adjourned to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled at 2 o'clock P. M.

Full Board present except Regent Joy.

Regent Blair presented and read the following communication from the Dean of the School of Pharmacy.

To the Honorable, the Board of Regents :

The following named persons (thirty-seven in number) have completed all the requirements for the degree of Pharmaceutical Chemist, and they are hereby recommended for this degree :

Charles William Allmand,	Arthur Gilliam Hopper,
Edward Blum,	Charles Hueber,
William Henry Burke,	Charles Norton Lake,
Eleazer E. Calkins,	George Pawling Leamon,
Ebin Tuttle Case,	John Duvidson Muir,
Charles Lewis Coffin,	Theseus David Pease,
John T. Conrad,	Charles Sperry Peyton,
William Hamilton Cooper,	Charles Riebe,
John Thomas Craig,	Adolph Aaron Schott,
George Maurice Cushing,	Albert Christian Schumacher,
William Edward Damon,	Channing Smith,
George Vernon Dawson,	Herbert Waldemar Snow,
Mattie Eaton,	William Edward Stevenson,
Franklin Herbert Frazee,	William Issachar St. John,
Llewellyn Hail Gardner,	William Augustas Travis,
Calvin Pomeroy Godfrey,	Albert Tenney Wagoner,
Charles Booth Harvey,	Robert M. Wetzel,
Wilmer Brown Hoge,	Edwin L. Wilhite,

Will C. Wyckoff.

By direction of the Faculty of the Department of Pharmacy,

Respectfully submitted,

ALBERT B. PRESCOTT,

Dean of the Faculty.

Regent Blair submitted the following resolution which was adopted unanimously :

Resolved, that the degree of Pharmaceutical Chemist be and is hereby conferred on the above named persons in accordance with the recommendation of the Faculty of the School of Pharmacy.

Regent Van Riper presented and read the following communication :

To the Honorable, the Board of Regents :

The following named persons have complied with all the requirements, and are hereby recommended by the Faculty of the Dental College (subject to your approval) for the degree of Doctor of Dental Surgery :

Francis Emory Battershell,	Alvin Ellis Unger,
Franklin R. Carson,	Charles Phillip Weinrich.

Respectfully submitted,

J. TAFT,

Dean of the Faculty.

Regent Van Riper submitted the following resolution :

Resolved, That the degree of Doctor of Dental Surgery be conferred on the above named persons in accordance with the recommendation of the Faculty of the Dental School.

The resolution was adopted by the full vote of the Board.

Regent Duffield, chairman of the Committee on Literary Department, presented and read the following communication from the Secretary of the Faculty of the Department of Literature, Science and Arts.

To the Honorable, the Board of Regents :

GENTLEMEN,—I have the honor to report to your Honorable Body that the following persons have been recommended, at the last meeting of the Faculty, for the degrees indicated, viz. :

BACHELOR OF LETTERS.

Charles Eugene Boyce,	Clementine Lord Houghton,
Elizabeth Gray Cornell,	Stephen Arnold Douglas May,
Charles Printy Drummond,	Charles Hovey Puckett,
Elmer Dwiggins,	Clarence Quimby Tappan,
Carrie Isa Wilmot.	

BACHELOR OF SCIENCE.

[COURSE IN CIVIL ENGINEERING.]

Henry Darling Burnett,	William George Clark,
James Luscombe Callard,	Robert Campbell Gemmell,
John Christian Streng.	

BACHELOR OF SCIENCE.

Harry Faris Forbes,	K. D. Harger.
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BACHELOR OF PHILOSOPHY.

Thomas W. Gilmore,	Otto Landmann,
Leslie Benton Hanchett,	Edwin Howard Lyon,
Harry William Hawley,	Calvin Dexter May,
John Hamilton Howell,	William Lane McDonald,
Thomas Spencer Jerome,	Frank Atherton Ross,
Elbert Leland Johnson,	Claudius Wallich,
Jennie L. Jones,	Agnes Clara Weaver.

BACHELOR OF ARTS.

Mary Elizabeth Allen,	Harry Bitner,
Charles Sumner Ashley,	Merle Amos Breed,
Willis Baldwin,	Fred Ernest Britten,
Elmer Ellsworth Beach,	Hugh Brown,

Eugene Byrnes,
 Emile Claude Caleyron,
 James Albert Case,
 Mary Sophia Case,
 Winthrop Burr Chamberlain,
 Eugene Stephen Clarkson,
 John Evans Cornell,
 Elmer Sutherland Crawford,
 Jennie Emerson,
 John Glasgow Fitzpatrick,
 William Chester Foote,
 Francis William Gregory,
 Delbert James Haff,
 Avon Stacy Hall,
 Isabella Hattie Hull,
 Bessie Perry Hunt,
 Frances Kusel,
 Seth Dwight Lathrop,
 Eugene Frank Lohr,
 Almira Lovell,
 Frank Nathaniel Lufkin,
 Janet King MacKenzie,

James Charles Martin,
 Edmund Haney Palmer,
 D. Russell Phillips,
 Myra Pollard,
 Lewis Addison Rhoades,
 Eugene V. Riker,
 William Savidge,
 Fred Newton Scott,
 Jennie Elizabeth Scranton,
 Lillie Maria Shaw,
 Fremont Elderkin Shurtleff,
 Arthur William Stalker,
 Albert Cushman Stanard,*
 Albert Boynton Storms,
 Mary Grace Taylor,
 Isadore Thompson,
 Martin Bryant Trainor,
 Julian Howard Tyler,
 Weller Van Hook,
 Bertha Van Hoosen,
 Arba S. Van Valkenburgh,
 Eli Cone Williams,

John Maxcy Zane.

Respectfully submitted,

P. R. DE PONT,

Secretary of the Faculty of the Department of Literature, Science,
 and the Arts.

Regent Duffield submitted the following resolution,
 which was adopted :

Resolved, That the degrees indicated in the foregoing communication be and are hereby conferred on the persons named therein, in accordance with the recommendation of the Faculty of the Department of Literature, Science, and the Arts.

Regent Duffield presented the following communication :

To the Honorable, the Board of Regents :

GENTLEMEN.—I have the honor to report to your Honorable Body that the following persons have been recommended, at the last meeting of the Faculty, for the Advanced Degrees, as follows :

MASTER OF SCIENCE.

Frank Vincent Broadbent, B. S., William A. Locy, B. S.,
 William James Olcott, Ph. M.

* See Proceedings of Meeting of July 16th, 1884.

MASTER OF PHILOSOPHY.

Williston Samuel Hough.

MASTER OF ARTS.

Albert Nelson Bliss, A. B.,	Samuel Wilber Norton, A.B.,
Edwin Newton Brown, A. B.,	Chester Smith Powell,
Edmund Buckley,	Charles Jacob Scroggs,
Augusta Jane Chapin,	Marcellus John Thompson, A.B.
Benjamin Leonard D'Ooge, A. B.,	Edward Reed Wagner,
Walter Miller,	Frank Caspar Wagner,
Helen S. Wyllis, A. B.	

Respectfully submitted,

P. R. DE PONT,

Secretary of the Faculty of the Department of Literature, Science, and the Arts.

Regent Duffield submitted the following resolution, which was adopted :

Resolved, That the Advanced Degrees mentioned in the foregoing communication be, and are hereby conferred upon the persons named therein, according to the recommendation of the Faculty.

The resolution was adopted.

Regent Duffield also presented the following :

To the Honorable, the Board of Regents :

GENTLEMEN.—I have the honor to report to your Honorable Body that the following persons have been recommended, at the last meeting of the Faculty, for the degree of

DOCTOR OF PHILOSOPHY,

with the added condition that full diplomas are to be withheld until the theses are printed.

George Wells Knight, A. M.,	Charles Emmet Lowrey, A. M.
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Respectfully submitted,

P. R. DE PONT,

Secretary of the Faculty of the Department of Literature, Science, and the Arts.

JUNE 23, 1884.

Regent Duffield submitted the following resolution :

Resolved, That, in accordance with the recommendation of

the Faculty of the Literary Department, the degree of Doctor of Philosophy be, and is hereby conferred on George Wells Knight and Charles Emmet Lowrey, and that the full diplomas are to be withheld until the theses are printed.

The above resolution was adopted unanimously.

Regent Blair presented and read the following communication from the Faculty of the Law Department :

UNIVERSITY OF MICHIGAN, }
DEPARTMENT OF LAW, }
June 23, 1884. }

To the Honorable, the Board of Regents:

GENTLEMEN.—The Faculty of Law respectfully report that the following named persons have passed all required examinations in this Department, and they therefore recommend that the degree of Bachelor of Laws be conferred upon them :

Willis John Abbott,	Harry Saint Julian,
Leonard Alger,	Henry Symes Mahon,
John C. Donnelly,	Allen Mitchell,
Homer Clark Fancher,	Charles Henry Mitchell,
Paul Hutchinson,	Edwin Thomas Smith,
Albert Lawrence Joyce,	James Franklin VanVoorhees,
John Hampden Yoell.	

Respectfully submitted for the Faculty,

HENRY WADE ROGERS,

Secretary.

Regent Blair submitted the following resolution :

Resolved, That the degree of Bachelor of Laws be and is hereby conferred upon the persons named in the foregoing communication, in accordance with the recommendation of the Faculty of the Department of Law.

The above resolution was adopted.

Regent Duffield presented the request of Miss Augusta Jane Chapin, to be excused from attendance on Commencement day on account of the illness of her mother. And, on his motion, Miss Chapin was excused by the Board.

On motion of Regent Van Riper, the Board adjourned to 8 o'clock P. M.

EVENING SESSION.

Regent Duffield presented a communication from R. C. Davis, Librarian, relative to the need of certain conveniences in the Library which on motion was referred to the Committee on buildings and Grounds.

Regent Shearer, Chairman of the Committee on Buildings and Grounds, submitted the following preamble and resolution :

WHEREAS, Samuel J. Creswell, of Philadelphia, Pa., has presented and delivered to the University an ornamental Drinking Fountain, Therefore, it is

Resolved, That the President be and hereby is, requested to convey the thanks of this Board to Mr. Creswell for his useful and beautiful present.

The above resolution was adopted unanimously.

The Committee on Buildings and Grounds presented the following report through its Chairman, Regent Shearer :

June 24th, 1884.

Gentlemen.—The Committee on Buildings and Grounds to whom was referred the matter of procuring desks and chairs to be used for the meetings of the Board of Regents hereafter in the east wing of the Library Building, would report that they procured, through Secretary Wade, proposals for eight black walnut desks, 36 x 26 inches, with one drawer in each. Also, for eight black walnut revolving and tilting chairs, with cane seats and backs, all to be delivered in Ann Arbor for the sum of \$144, which exceeded our expectations.

As this sum did not afford furniture entirely satisfactory to your Committee, and as a number of serious objections were developed to removing from the President's room, among which may be mentioned the inconvenience of referring to the books and papers of the Secretary and Treasurer and to those in the vault, and as the meetings of the Board occur so rarely, your Committee have thought that perhaps your determination to remove would be reconsidered.

They therefore respectfully ask for further consideration and instructions as to the matter of removal and furniture.

On motion of Regent Grosvenor the Committee on Buildings and Grounds were discharged from further consideration of fitting up a room in the Library Building for the use of the Regents, and it was decided that the Board should continue the use of the President's room as heretofore.

President Angell presented and read the following communication from the Hon. Alpheus Felch and J. H. Morris, Esq.:

ANN ARBOR, June 24, 1884.

Hon. James B. Angell, President of the Board of Regents, etc., etc.:

Dear Sir.—We take the liberty of sending to you with this note a portrait of Stephen T. Mason, the first Governor of the State of Michigan. The portrait was taken from life by an artist in Detroit in the year 1836 while the subject of it, at the age of about twenty-four years, was occupying the official position of Chief Executive Magistrate of the State; and our personal acquaintance with him enables us to pronounce it a faithful likeness.

Governor Mason in his official capacity approved the statute establishing the University of Michigan, passed by the first Legislature of the State. He selected the men who constituted the first Board of Regents of the University and with the advice and consent of the Senate appointed them and he was himself *ex officio* the first President of the Board. His administration embraced the trying period of the infancy of the institution in which we now take so much pride, but in every emergency Governor Mason proved himself its warm, judicious and efficient friend. In these Halls, at least, his memory should never be allowed to wholly fade away. We have thought, therefore, that the portrait of this early friend of the University and first presiding officer of the Board of Regents might very appropriately find a place upon the walls of the room in which the meetings of that body are held, and that it might not be unacceptable for that purpose; and we respectfully ask you to solicit for us the acceptance of the same by the Regents.

Very Respectfully Yours,
ALPHEUS FELCH,
J. H. MORRIS.

Regent Blair submitted the following resolution:

Resolved, That the Board of Regents of the University of

Michigan have received with great satisfaction the letter of Gov. Alpheus Felch and Mr. J. H. Morris presenting to the University the excellent portrait of Stephen T. Mason, the first Governor of the State of Michigan, to whom the University was very greatly indebted in its infancy and whose memory we desire to perpetuate.

Recognizing that the portrait is a faithful likeness taken from life when Gov. Mason was about 24 years of age, we accept it for the University and assure the donors of our warmest thanks for this so very acceptable gift.

The above resolution was adopted by the Board unanimously, with many expressions of gratitude.

Regent Duffield presented and read the following communication from the Faculty of the Department of Literature, Science and the Arts relative to establishing the degree of Bachelor of Science in Chemistry :

To the Honorable the Board of Regents :

Gentlemen—I have the honor to inform your Honorable Body that the Faculty, at its meeting of June 16th, considered a plan of the Department of Chemistry for the establishment of a special course leading to a Degree to be known as *Bachelor of Science in Chemistry*.

The Faculty voted to request your Honorable body to establish such course and degree, and I beg to submit to your consideration the accompanying document which contains the details of the plan.

Respectfully submitted,

P. R. DE PONT,

Secretary of the Faculty.

June 23d, 1884.

THE DEGREE OF BACHELOR OF SCIENCE IN THE COURSE IN CHEMISTRY.

The requirements for admission into the University, for candidates for the degree of Bachelor of Science in Chemistry shall be the same as those for candidates for the Degree of Bachelor of Science in General Science.

To obtain the recommendation of the Faculty for the degree of Bachelor of Science in Chemistry, the student must complete *twenty-six* full courses, of which the following stated courses are

prescribed, (these amounting to *twenty-one and three-fifths* full courses) :

Courses 10, 12, 14, 15	in Mathematics. *
Courses 2, 4	in French. †
Courses 1, 3	in German. ‡
Course 1 or 7	in English.
Course 3 or 4	in Drawing.
Course 2	in Physiology.
Courses 1, 9	in Geology.
Course 10 or 2	in Physics.
Courses 2, 3	in General Chemistry.
Courses 1, 2, 5a, 5a', 10, 11	in Analytical Chemistry
Course 4	in Organic Chemistry.
Course 2	in Mineralogy.
Either Course 2	in Botany,
Or Course 4	in Physics,
Or { Course 1	in Metallurgy,
{ and Course 10	in Analytical Chemistry
Three full courses	in Chemistry.

Regent Duffield moved that the degree of Bachelor of Science in Chemistry be established in accordance with the foregoing recommendation of the Faculty of the Literary Department.

The motion was carried.

Regent Shearer presented the annual report of the Steward as follows :

To the Honorable the Board of Regents :

Gentlemen—As Steward of the University I beg to submit the following report of the condition of the property placed in my hands, and the care it has had during the time it has been under my control.

GROUND S.

Of the grounds, I need say very little. Observation will enable you to note what has been done. And your good judgment will point out the errors, if they exist. I have given them

* Instead of these Courses the students will be permitted to take an equivalent amount from the other Courses offered in Mathematics, if he is qualified to pursue them.

† Instead of these Courses the student may take Courses 1 and 5.

‡ For students who passed an admission examination in German instead of French the prescribed Courses are 1 and 5 in French, and 2 and 6 in German; for those who passed admission examinations in both French and German. the prescribed Courses are 2 and 6 or 4 in French, and 2 and 6 in German.

all the care the limited means at our disposal would permit. And I trust you will be able to see that they have not been wholly neglected.

BUILDINGS.

Law Building. By a resolution of the Board I was directed (when the General Library should be moved into the new Library building) to fit up and put in good order the Law building for the sole use of the Law Department. Your instructions have been complied with as follows: The upper lecture room was renovated, kalsomined and painted, and is now one of the most pleasant and cheerful rooms on the campus. The library room on first floor was also cleaned, kalsomined and painted, the old cases were removed, and proper shelving provided for the reception of the Law Library, which was transferred to it from the room above. It is now a very attractive room, and is kept in excellent order by the present Librarian Mr. J. H. Vance. The old Law Library room on second floor was thoroughly overhauled, kalsomined and painted. The old cases were removed, and seats put in to the number of 120 sittings. It is now used as a Lecture and Quiz room by Professor Rogers. The entire building was cleaned, and most of the smaller rooms were kalsomined. A door was put in connecting Judge Cooley's office with the adjoining room on the east, and a large book case placed therein for the better accommodation of the Judge. This building is now in excellent condition and will need very little attention for several years, except the roof, which will have to be replaced in the near future, and new floors in the halls.

Reading Room. By your direction a reading room was fitted up in the north wing of the Main building, in the room known as the Nydia room. The contents of this room were removed and placed in the Museum. The old cases were taken out, and the room painted and kalsomined. Additional heating and gas were put in, and tables and chairs to accommodate thirty readers were provided.

Professor Harrington's room. The room immediately above the Reading Room (formerly occupied by Dr. Frieze) was fitted up for the use of Professor Harrington. One large case was provided, and additional seating and black-board furnished; the room was then kalsomined and painted.

Professor Wead's room. One large glass case was placed in Professor Wead's room to accommodate new apparatus purchased with Legislative Appropriation for the Department of Physics.

Professor Jones' room. In Professor C. N. Jones' room on fourth floor in the south wing, the ceiling was very low. I had it raised four feet, kalsomined and painted, at a cost of \$150; it is now a very desirable room. All rooms on this floor should be treated in this manner. Nearly all the rooms and halls in this building were kalsomined, and the entire building thoroughly cleaned. The Steward's office was also kalsomined and painted, and new matting put down. One large glass case was also placed in this office, and new matting was laid in the Ladies' Waiting Room. The tin roof on the south wing was painted, and repairs on the roof of north wing to the amount of \$40 were made. The entire roof of this building should be painted during the coming vacation.

Museum. Five large wall cases have been made and placed in the Museum; also one large centre case 16x28 feet, and are placed in the south end of the building on the third floor, in which are placed the Indian relics. These cases cost about \$800. I respectfully ask the Board to examine them, and the Committee on Buildings and Grounds to inspect this *building* carefully.

Chemical Laboratory. Much time was spent in kalsomining and painting the Chemical Laboratory. One large dispensing case was put in; also one large evaporating case constructed with steam coils running between the shelving, making an expensive piece of work. The lead lining in troughs under work tables, which conducts the water to pipes leading to sewer, was wholly destroyed by chemical action, and had to be replaced, requiring 1400 pounds of sheet lead. A system of locks has been put in this building by which all drawers in work tables may be locked and the student made responsible for all material put into his hands. A new roof was put on the engine room. This building is now in very good repair internally. The basement rooms will need to be connected with the sewer during the summer, as the cesspools are now overflowing. More shelf room will need to be provided in the dispensing room together with other minor repairs.

Medical Building. By your direction I was required to renovate and ventilate the Medical Building, and provide more room for the medical museum, for which the board appropriated \$500. I have endeavored to carry out your instructions by thoroughly cleaning and kalsomining the entire building and painting a part of the wood work. A secondary skylight was put in at the base of the tower in the upper lecture room, by reason

of which this room can be far more easily heated. The ventilation was put in according to a plan adopted by the Chairman of the Committee on Buildings and Grounds. One large glass case was placed in Dr. Hendricks' room, and the room in south east corner was fitted up with glass cases for the reception of anatomical specimens. I have taken special care to see that the building was kept clean during the school year, and particular attention has been given to the condition of the dissecting rooms. All agree that the condition of this department has been greatly improved.

Mechanical Laboratory. By resolution of the Board I was directed to move the new carpenter shop to a connection with the Mechanical Laboratory and fit up the same for the use of that department. This has been done at a cost of \$600, and is a great addition and convenience to this worthy but poorly equipped department.

Dental College. In this department very little has been done in the way of repairs, except an addition to the museum case, and changing the drainage from south side to north side of building and connecting same with sewer. The building was also thoroughly cleaned. This department is asking for the enlargement of the west wing of the building, and that it be fitted up as an amphitheatre to be used by Dr. Ford as a lecture room. The estimated cost of this work is \$350. Plans of the work are in the Steward's office.

University Hospital. This building has been cared for by perfect renovation. All the walls were kalsomined and the floors painted. Extra ventilation was provided and a large porch was constructed on the south end of the Ladies' Ward. All the gutters were painted, new matting was placed in wards, and such other minor repairs made as are constantly coming up.

Homoeopathic College. In this department two partitions were put in on the second floor of front building dividing rooms to be used for patients. Fifty chairs were purchased for lecture room; new matting and curtains furnished for all the wards and halls. A new cooking range was also purchased, and the entire building thoroughly cleaned and kalsomined.

Observatory. By your direction I caused to be constructed a barn at the Observatory costing \$150, (the amount set apart by the Board for that purpose). Two water-closets were made and placed; additional book cases put in; stand for new clock was

made, and the roof and lightning rods repaired. The entire expenditure for repairs on these buildings amounted to \$375.

President's House. Repairs on the President's house and grounds have been made amounting to about \$200.

New Library. About \$1000 from the General Fund has been used in book cases, curtains, desks, matting and other fixtures in the new Library building, including \$300 for extra supports in book room and \$200 for grading. Two hundred more will be necessary to finish the grading and make the necessary walks.

This completes the list of buildings under my care, and I trust it will be seen that there has been no disposition on my part to neglect this property, or failure to take proper care of it. Much more ought to have been done, but our financial condition seemed to indicate that we must keep within certain limits, and that the limit for this year had been reached. I am glad to believe that the property is in much better condition than when it came into my hands.

JAMES H. WADE,
Steward.

On motion of Regent Grosvenor, the recommendations contained in the report of the Steward were referred to the Committee on Buildings and Grounds, and the report ordered printed in the minutes.

On motion of Regent Grosvenor, the Board went into Executive Session. At the close of the Executive Session, the business of the open session was resumed.

The Executive and Literary Committees "jointly" made the following recommendations to the Board :

1st.—That Professor Elisha Jones be granted leave of absence for one year, to travel and study in Europe. Salary to lapse during his absence.

2d.—That Instructor Charles M. Gayley be appointed to take Professor Jones's work during his absence, with title of Acting-Professor, and salary of \$1,600.

3d.—That Benjamin L. D'Ooge be appointed Instructor in Latin, for one year, at a salary of \$900

The foregoing recommendations of the Executive and

Literary Committees, were adopted by the Board by the following vote:

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark, and Willett.

Nays.—None.

Regent Van Riper presented a communication from Professor A. B. Prescott, relative to the appointment of a Director in charge of the Chemical Laboratory.

On motion, the paper was referred to the Committee on Pharmaceutical Department.

A communication from Professor M. E. Cooley, relative to salary, was presented by Regent Van Riper, and referred to the Special Committee on Salaries.

On motion of Regent Blair, the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

The Board re-assembled at 9 o'clock A. M.

Professor H. W. Rogers presented the request of the Law Department for a part of the legislative appropriation for the Library.

Referred to Committee on Law Department.

Regent Van Riper presented and read the following communication from the Dean of the Homœopathic College:

ANN ARBOR, June 25, 1884.

To the Honorable, the Board of Regents:

The following named students, having complied with the regulations of the University, are respectfully recommended to your Honorable Body for the degree of Doctor of Medicine:

Frank Belville Adams,
Henry James Allen,
Eldee Edward Austin,
George Blatchford,

Frank Ashbury Cameron,
Frederick Maymond Gibson,
Louisa M. Hayes,
Rufus James Hyde,

Frank O. Hart,
 Frank Arthur Johnson,
 Charles Lindley Johnston,
 J. Kate Laub,
 Mary Louise Lines,
 Charles Douglas Long,

Charles Orville Munns,
 Walter Hulme Sawyer,
 John Raymond Shank,
 Louis Norton Tuttle,
 William Irvine Wallace,
 Rosella Cynthia Wilder.

By order of the Faculty,

T. P. WILSON,

Dean.

Regent Van Riper submitted the following resolution :

Resolved, That the Degree of Doctor of Medicine be conferred upon the persons named in the recommendation of the Faculty of the Homœopathic College.

The resolution was adopted by the Board.

Regent Duffield presented the following preamble and resolution :

WHEREAS, Messrs. Rœhm & Wright, jewelers, of Detroit, have kindly presented to the Library Reading Room, an excellent eight day clock, and set up the same without expense to the University ; Therefore,

Resolved, That the cordial thanks of the Board of Regents be, and are hereby tendered to the donors for their timely and acceptable gift.

The resolution of Regent Duffield was adopted.

On the 8th day of January, 1883, Dr. George F. Heath, Resident Physician at the University Hospital, deposited with the Treasurer twenty-seven dollars and seventy cents (\$27.70) found on the person of a patient who died in the hospital at that date, said money to be delivered to the relatives or friends of the deceased if found. No claimant having appeared, Regent Grosvenor submitted the following resolution :

Resolved, That the amount stated above, now in the hands of the Treasurer, as a special deposit, be placed to the credit of the General Fund.

The resolution of Regent Grosvenor was adopted.

Dr. T. P. Wilson, Dean of the Homœopathic Medical

College, presented and read the annual report of that Department, and also the report of Dr. W. H. Davis, Resident Physician. Which, on motion of Regent Van Riper, were accepted and ordered placed on file.

Regent Van Riper presented the resignation of Dr. C. S. Case, Demonstrator of Mechanical Dentistry, in the Dental College. And, on his motion, the resignation was accepted.

Regent Van Riper presented a communication from Dr. J. Taft, Dean of the Dental College. Referred to the Committee on Finance.

On motion of Regent Shearer, the claim of John A. Waite, of Toledo, was referred to the Committee on Finance.

The list of candidates for the degree of Doctor of Medicine, was presented by Dr. A. B. Palmer, Dean of the Department of Medicine and Surgery, and, on motion, was referred to the Medical Committee.

Dr. A. B. Palmer presented a communication relative to conferring the degree of Doctor of Medicine on Mr. C. C. Hall, which was also referred to the Medical Committee.

The recommendation of the Faculty of the Medical Department, relative to increasing the salaries of Professors V. C. Vaughn, W. J. Herdman, and George A. Hendricks, was referred to the Special Committee on Salaries. And their recommendations relative to appointments to fill vacancies in that Department, were referred to the Medical Committee.

Dr. A. B. Palmer presented the annual report of the Resident Physician, at the University Hospital, which was read, accepted, and ordered placed on file.

Professor Chas. H. Stowell presented and read his annual report of the Histological and Microscopical Laboratories.

On motion of Regent Grosvenor, the report was accepted and placed on file.

Dr. T. P. Wilson, Dean, presented the recommendation of the Faculty relative to the appointment of a Resident Physician for the Homœopathic Hospital, which, on motion, was referred to the Medical Committee.

The following communication from the Dean of the Department of Medicine and Surgery was presented by Regent Van Riper :

To the Honorable, the Board of Regents :

The following named persons having complied with all the requirements of the Department of Medicine and Surgery, are hereby recommended for the degree of Doctor of Medicine.

In behalf of the Faculty,

A. B. PALMER, Dean.

Edwin X. Amoss,
Belle Evans Anderson,
Zachary Taylor Arnold,
James Anthony Bach,
Judson Henry Bennett,
Harvy Ervin Blacksten,
Asa Prior Booth,
Ida Rebecca Brigham,
Benjamin Isaac Coman Buckland,
Almond Eugene Calkins,
Hugh Cary,
Calvin Survill Case,
Albert Eugene Coy,
Marion Craig,
Sara Craig,
Minnie A. G. Crawford,
George Willis Crosby,
Austin P. Culbertson,
Sidney Hollister Culver,
Henry Clay Doan,
Charles Willcox Dodd,
William Milan Edwards,
Ferdinand Thomas Field,
Frank Marion Foote,
John Willis Fowler,
Albert Theodore Getchell,
Frank Mortimer Gier,
Marcia Gilmore,
John Lincoln Gish,
John Fred Griese,

John William Handy,
John Kennedy Hanna,
Francis Albert Hargrave,
George Stephen Hatch,
George Albert Haynes,
Lucy May Heath,
Lydia Higgins,
Wilbert Arthur Hobbs,
Edward Hofma,
William Bailey Hunter,
Woods Hutchinson,
Thompson Linn Iddings,
William Warren Johnson,
John Kelly, Jr.,
James Asahel King,
Richard Willis Kitchen,
William Whiting Lathrop,
Robert Charles Leacock,
Laura L. Liebhadt,
Clyde Clark Lovin,
Stephen Ludlum,
Frederick George Lundy,
James Henry Lyons,
John Madden,
Frederick Williams Main,
James Wesley McGregor,
Andrew Barclay Mercer,
Emma Wilson Mooers,
Albert Irvin Moore,
Herman Webster Mudgett,

William George Muir,
 Marie Theele Orglert,
 Adelbert Orton,
 Daniel Edward Osborne,
 Herman Ostrander,
 Ridley C. Paine,
 Onesime Frank Paré,
 William Townsend Phillips,
 Charles William Piper,
 John Powers,
 Augusta Louise Rosenthal,
 Relief B. Seeds,

Mary Smith,
 Walter Erastus Spicer,
 Newton Tibbetts,
 Frank Adelbert Tinker,
 Julia Tolman,
 Orville Cram Trace,
 William G. Wheeler Tupper,
 Iris Jones Vaughan,
 James Glidden Vining,
 James Elsworth Walters,
 Frank D. Whitacre,
 William Halleck White. *

Regent Van Riper submitted the following resolution :

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the recommendation of the Faculty of the Department of Medicine and Surgery.

The resolution of Regent Van Riper was adopted.

Regent Blair submitted the following resolution, which was adopted :

Resolved, That when the Board adjourns, it be to the 16th day of July next, at 2 o'clock P. M., at which adjourned meeting the report of the Special Committee on Salaries shall be the special order until the same is disposed of. And said Special Committee is hereby instructed to report at that time.

Regent Blair presented and read the following preamble and resolution :

The Committees on Buildings and Grounds, and on the Law Department, to whom was referred the claim of James Appleyard, contractor for the building of the new Library Building, respectfully report to the Board of Regents that they have heard the statements of Mr. Appleyard in regard to his claim, and do not find therein any sufficient reason for disturbing the full and final settlement heretofore made with him by the Committee on Buildings and Grounds, under the full authority given to them by the Board.

We do not find from Mr. Appleyard's own statement that he was deceived by the Committee, or that he did not understand the receipt in full of all his demands against the University, which was deliberately read and signed by him after receiving

* See p. — for action on the case of C. C. Hall.

payment of the full amount of the balance due him, as the same was ascertained by a careful examination of the accounts. We recommend, therefore, the passage of the following resolution :

Resolved, That the settlement heretofore made with James Appleyard by the Committee on Buildings and Grounds is regarded by the Board of Regents as final and just, and they decline to re-open the accounts for readjustment.

The above preamble and resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark, and Willett.

Nays—None.

The following resolution presented and read by Regent Van Riper was adopted unanimously :

Dr. S. S. Garrigues having presented to the Museum a collection of minerals consisting of over four hundred specimens of great value,

Resolved, That the thanks of the Board of Regents be and the same are hereby extended to Dr. Garrigues for his very acceptable and valuable gift, and that said collection be placed in the University Museum.

Regent Grosvenor or Chairman of the Finance Committee submitted the following resolution :

The Committee on Finance, to whom was referred the account or claim of Jno. A. Waite for \$38.52, respectfully report; That from an examination of the matter your Committee are unanimous in the opinion that Mr. Waite has no legal or equitable claim against the University and recommend that the account be rejected.

The resolution of Regent Grosvenor was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark and Willett.

Nays—None.

On motion of Regent Grosvenor the Board adjourned to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reassembled and was called to order by the President at 2 o'clock, P. M.

Regent Duffield presented a communication from Professor Charles S. Denison relating to the reorganization of the work in drawing, which was referred to the select Committee on Salaries.

Regent Blair presented and read the following communication from the Secretary of the Law Faculty :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF LAW, }
ANN ARBOR, June 23, 1884.. }

To the Honorable, the Board of Regents :

Gentlemen.—We respectfully request that an appropriation of Two Hundred Dollars be made for the purpose of printing the annual announcement of this Department, as well as for advertising the same. We understand that this practice is pursued in the case of the other Departments of the University, and are satisfied that the best interests of this Department will be subserved by so doing.

Respectfully submitted,
HENRY WADE ROGERS,
Secretary of Law Faculty.

Regent Blair submitted the following resolution and asked its adoption :

Resolved, That Two Hundred Dollars or so much thereof as may be needed for that purpose, be and hereby is appropriated for the purpose of printing the annual announcement of the Law Department and for advertising the same in pursuance of the letter of Prof. Rogers recommending such appropriation.

The resolution of Regent Blair was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark and Willett.

Nays—None.

The following resolution was presented by Regent Van Riper :

Resolved, That W. H. Sawyer, M. D., be appointed Resident Physician of the Homeopathic Medical College for the coming year at a salary of \$350 per year.

The above resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark and Willett.

Nays—None.

Regent VanRiper submitted the following resolution :

Resolved, That Dr. O. F. Chadbourne be and he is hereby appointed Resident Physician at the University Hospital for the coming year at a salary of \$450 per year.

The foregoing resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Clark and Willets.

Nays—None.

The medical committee to whom was referred the request of C. C. Hall (endorsed by the Medical Faculty) that the degree of Doctor of Medicine be conferred on him by the Board at this meeting, submit the following resolution through their Chairman, Regent VanRiper :

Resolved, That in view of the peculiar circumstances under which Mr. C. C. Hall attended the Medical school at Baltimore for a part of the term requisite for graduation in the Medical department of this University, instead of attending lectures in the latter school for the entire third year, the degree of Doctor of Medicine be conferred upon Mr Hall in accordance with the recommendation and approval of the Medical Faculty of this University.

Provided, That hereafter no person shall be permitted to graduate from the Medical Department unless he shall have attended here the whole period of the third year of studies required of such candidate.

J. J. VAN RIPER,

Chairman Medical Committee.

The resolution was adopted by the full vote of the Board.

Regent VanRiper presented the annual report of the Demonstrator of Anatomy, and on motion the report was accepted and placed on file.

The following resolution, submitted by Regent Shearer, was adopted unanimously :

Resolved, That the Honorary Degree of Civil Engineer be and is hereby conferred upon Professor Charles E. Greene, A. M.

The following resolution, submitted by Regent Willett, was adopted unanimously :

Resolved, That the Degree of Bachelor of Arts be and is hereby conferred upon Charles Alonzo Cook, as of the class of 1871.

Regent Willett submitted the following resolution, which was adopted by the full vote of the Board :

Resolved, That the Honorary Degree of Master of Arts be and is hereby conferred upon the Rev. Theodore Nelson.

On motion of Regent VanRiper, the Board adjourned to 8 o'clock, P. M.

EVENING SESSION.

The Board reassembled at 8 o'clock P. M.

A communication from the Commissioners appointed by the Governor to attend to Michigan's interests in the approaching Expositions to be held at Louisville, Ky., and New Orleans, La., soliciting exhibits on the part of the University, was presented and read by Regent Van Riper, and the following recommendation submitted :

The committee on Museum and School of Mines to whom was referred the question of University exhibits at the Louisville and New Orleans Expositions, beg leave to report, that in view of the short period of time before the opening of such Expositions and the labor necessary to make a creditable exhibit together with the expense as well as the danger of damage to such material, they recommend that no action be taken thereon.

J. J. VAN RIPER,
AUSTIN BLAIR.

The above recommendation was concurred in by the Board.

On motion of Regent Shearer, the title of Clarence G. Taylor was changed from Assistant in Mechanical Laboratory, to Assistant in Mechanical Engineering.

On motion of Regent VanRiper the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

The Board reassembled at 9 o'clock, A. M., and adjourned to 12½ o'clock.

AFTERRNOON SESSION.

At 12½ o'clock the Board convened and on motion of Regent Duffield adopted a vote thanking Assistant Bishop H. C. Potter, D. D. LL. D., of New York, for his scholarly and eloquent Commencement address, and requesting a copy for publication.

The Board then adjourned to Wednesday, July 16th, at 2 o'clock P. M.

JAMES H. WADE,
Secretary.

ADJOURNED MEETING.

JULY, 1884.

UNIVERSITY OF MICHIGAN,
Wednesday, July 16, 1884. }

The Board of Regents convened in the room of the President pursuant to vote of adjournment, at 2 o'clock P. M.

Present—the President, Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Absent—Regents Joy and Willett.

The President stated that an error had been made in the list of candidates for degrees, presented by the Literary Faculty, at the June meeting of the Board, by reason of which the degree of A. B. instead of B. L. was conferred upon Albert Cushman Stanard, and suggested that the action of the Board in this case be rescinded, and the degree of B. L. be conferred.

Regent Duffield submitted the following resolutions :

Resolved, That the vote by which the degree of A. B. was conferred upon Albert Cushman Stanard be rescinded.

Resolved, That the degree of B. L. be and is hereby conferred upon Albert Cushman Stanard, in accordance with the recommendation of the President.

The above resolutions were adopted by the full vote of the Board.

Regent Van Riper presented the following communication from the Dean of the Dental College :

To the Honorable Board of Regents :

GENTLEMEN,—Levi Calvin Dozer having completed his course of study and all required work, and passed satisfactory

examination, is hereby recommended for the degree of Doctor of Dental Surgery.

Respectfully submitted,
J. TAFT, Dean,

Regent Van Riper submitted the following resolution, which was adopted :

Resolved, That the degree of Doctor of Dental Surgery be conferred upon Levi Calvin Dozer, in accordance with the recommendation of the Dean of the Dental Faculty.

Regent Shearer presented and read the statistical portion of the Librarian's annual report, which on motion was accepted and ordered placed on file.

Regent Shearer submitted the following resolution :

Resolved, That a set of drawers for the reception of maps in the Library be provided by the auditing Board ; and that said Board have the gas lights in the special students rooms changed to argand burners.

The above resolution was adopted by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

Regent Shearer, Chairman of Committee on Buildings and Grounds, presented and read a communication from the Edison Electric Light Co., which included a proposition to put thirty-five incandescent lights in the Reading Room in the Library. After discussion by the Board, and on motion of Regent Shearer, the communication was laid on the table.

Regent Shearer submitted the following resolution, which was adopted.

Resolved, That the thanks of this Board be conveyed to the Pratt & Whitney Company, of Hartford, Conn., for their generous present to the Mechanical Laboratory of two very useful sets of Gear Models.

On motion of Regent Blair the Board went into executive session. After remaining in executive session for some time the business of the open session was resumed.

Regent Blair presented and read the following report of the Select Committee on Salaries:

The Special Committee to which were referred several applications for increase of salaries, and also the general subject of salaries, and the re-adjustment thereof, respectfully report to the Board that they have given the subject earnest attention, and have especially caused a careful statement to be made by the Secretary of the resources at the command of the Board, and estimates of the expenditures necessary to keep the University in operation upon the present basis, and they have availed themselves of the very full investigation of the affairs of the University, made by Prof. Pettee, and which they recommend to be printed for future reference and use.

The Committee find that the salaries of Professors and other employees were established substantially as they now are by the Board of Regents, on June 27, 1878, in pursuance of a resolution of the Legislature, requesting the Board to make certain reductions in the salaries of Professors, Teachers, and other employees. Considerable reductions were then made, and while, if the question was now a new one, the Committee might be inclined to recommend further reduction in some of the salaries in some of the Professional Schools, they cannot see their way to make any considerable changes in the salaries of the Professors of the principal departments of the University, after they have stood as at present so long.

Equally the Committee feel compelled to say, that the resources in the control of the Board will not justify us in attempting to increase any of the salaries as we have been requested to do by the various memorials and applications before us as a general rule.

In the Law Department, the increase in the length of the terms, from six to nine months, has not unnaturally been made the occasion of an application by the Professors in that department for an increase of their salaries, and we are inclined to recommend a very small increase. These salaries have been fixed at \$1500 per year, and we recommend that hereafter they be established at \$1600 per year.

We recommend that the salaries of the Secretary and Treasurer be increased from \$1400 to \$1800 per year.

That the salary of the Law Librarian be increased from \$250 to \$400 per year.

Also, that the sum of four hundred dollars per annum be paid to Professor M. E. Cooley as a salary on the part of the University for his services as Professor of Mechanical Engineering.

AUSTIN BLAIR,

Chairman of Special Committee.

The foregoing report was adopted by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

On motion of Regent Blair, the Secretary was requested to communicate the action of the Board to all persons affected by the action taken on the question of salaries.

Regent Blair presented and read the following communication from Prof. Thomas M. Cooley :

UNIVERSITY OF MICHIGAN,
ANN Arbor, March 25, 1884. }

To the Honorable the Board of Regents :

At the end of the present College year, which is the twenty-fifth of my service in the University, I propose to terminate my connection with its instruction. I therefore tender my resignation, to take effect at that time.

In communicating this purpose I desire to accompany it with a grateful acknowledgment of the kindness and courtesy which uniformly and without exception of persons have been shown to me, not only by the members of the Faculty of Law, with whom my associations have been the most intimate, but also by the successive presidents, and the members of Faculties of other departments and schools. I shall part from each and all with deep sensibility, taking with me recollections which will be dear to me through life.

For the kindness shown me by the Board of Regents, I also desire to make special acknowledgement.

Very Respectfully,

T. M. COOLEY.

On motion of Regent Grosvenor, the resignation of Professor Cooley was referred to the Committee on Law Department.

A statement prepared by Professor Pettee (at the re-

quest of the Auditing Board) concerning the condition of the general fund from 1869 to 1883 inclusive, was presented to the Board of Regents, by Professor Pettee, with oral explanations:

Regent Grosvenor moved that Professor Pettee be requested to prepare his statement for publication, and that it be printed in the proceedings of the Board.

The motion of Regent Grosvenor was carried unanimously.

PROFESSOR PETTEE'S REPORT.

To the Honorable Board of Regents:

In the year 1882, and again in 1883, at the request of Regent S. S. Walker, Chairman of the Finance Committee, I assisted in examining the books and accounts of the Treasurer and the Steward, and in checking the stubs and vouchers. While engaged in that work my attention was directed more strongly than ever before to the fact, that, inasmuch as the financial year now closes at a date (September 30) when a considerable part of the fees from students for the ensuing year has been paid into the treasury, while at the same time a quarter's salary belonging to the current year remains unpaid, the cash balance in the Treasurer's hands at the close of business on September 30 gives only a partial idea of the true condition of the University funds.

A few days ago the subject was again brought to my notice, and I began an examination of the printed proceedings of the Board of Regents, in hope of ascertaining something more definite in regard to the point referred to above. The inquiry has carried me farther than I anticipated and has resulted in my getting together a number of tables, which, at the request of the Auditing Board, with whose advice and coöperation the work of preparing the tables has all been done, I now beg leave to explain and to submit for inspection.

At the outset let me say that these tables are not to be looked upon as furnishing a complete exhibit of the financial affairs of the University, even for the years they cover. For example, the condition of the "special accounts" is left entirely out of consideration. By "special accounts" are meant those that relate to the receipt and disbursement of moneys appropriated by the State Legislature for specific purposes connected with the management of the University. Such accounts are in

their nature extraordinary, being available only for the special purpose designated in each case, and affecting only incidentally the finances of the University as a whole.

Neither has an absolutely exhaustive treatment of the condition of the "General Fund" been attempted. There are always a few bills falling due near the end of September that do not get paid until after the 1st of October, and consequently are not included in the financial report of the year. The precise amount of such outstanding indebtedness at the close of previous years cannot now be ascertained; but as the sums involved are known to be usually small in amount, it is reasonable to assume that no material change in figures has resulted from not taking these items into account. The final balances, as given in the tables that follow, I am confident are close enough to the truth, for all present practical purposes, and for showing the changes in the financial condition from year to year.

In order to exhibit the real condition of the General Fund at the close of any fiscal year, it is obvious that the balance of cash in the treasury at that time to the credit of that fund ought to be increased by all sums that are due, and at the same time diminished both by the amount of outstanding loans and other forms of indebtedness chargeable to that fund, and by the sums that have been collected in advance from students in payment of fees for the coming year.

There are, therefore, two important questions to be considered: (1) Whether in the several financial reports that have been presented to the Board the balance to the credit of the General Fund has included all that properly belonged to the fund at the time the reports were made; and (2) whether the fund has been charged with the amount of indebtedness outstanding, and with the fees that had been collected in advance.

I. The answer to the first question depends entirely on the time when the quarterly remittances from the State Treasurer in payment of University Interest, and of the proceeds of the $\frac{1}{10}$ -mill tax, reached the University. There are no other sources of income that need to be taken into account in this connection.

(a). *The University Interest.*—The amount due the University each year from this source is about \$38,000; and it appears that, as a rule, the quarterly payments have been made either a few days before or a few days after the end of a quarter. In consequence of this lack of uniformity in date of payment, the University has received, sometimes three, sometimes four, and

sometimes five quarters of interest within the year covered by the Finance Committee's report. The amounts received for a quarter have varied from \$8,000 or less to \$13,000 or more. On the Treasurer's books however, there is nothing to show whether any particular payment was properly available for the expenses of the quarter in which it was received or for those of some other quarter, and I was obliged to trace the records back as far as the year 1869, before finding a date to serve as a starting point. In the volume of Regents' Proceedings for 1864-70, page 371, the report of the Finance Committee for the year ending June 30, 1869, states that the University Interest is "fully paid this year," the amount received during the year having been "about \$10,000 in excess of the *annual* interest on the fund, being about the sum *usually* remaining in the State Treasury at the close of the fiscal year." The receipts from this source since the year 1869, are shown in Table I. In 1880 the end of the fiscal year was changed from June 30 to September 30.

TABLE I.

RECEIPTS ON ACCOUNT OF UNIVERSITY INTEREST FROM 1869
TO 1883.

For the Year Ending.	Amount re- ceived.	Remarks,	Where Re- ported in Proceedings.
June 30, 1870	\$30,000 00	Apparently one quarter in arrears.	P. 55
" " 1871	46,657 95	" " fully paid.	P. 152
" " 1872	38,350 00	" " " "	P. 246
" " 1873	38,667 00	" " " "	P. 314
" " 1874	38,014 00	" " " "	P. 401
" " 1875	38,650 00	" " " "	P. 472
" " 1876	38,427 23	" " " "	P. 73
" " 1877	24,774 40	" " one quarter in arrears.	P. 170
" " 1878	38,596 96	" " " "	P. 291
" " 1879	39,226 68	" " " " " "	P. 426
Sept. 30, 1880	51,451 78	" " " " " " (5 quarters)	P. 592
" " 1881	38,531 59	" " " " " "	P. 127
" " 1882	38,398 47	" " " " " "	P. 281
" " 1883	47,257 58	" " fully paid.	P. 405

From the table it appears that at the end of the fiscal year 1869-70, and at the end of each fiscal year from 1877 to 1882, inclusive, there was always one quarter's interest due. The amount received in the first quarter of the following year may be regarded as the sum to be placed to the credit of the General Fund in each case. These amounts, except for the year 1870, I have taken from the printed proceedings or from the records in the Treasurer's office, and have made use of them in Table III. The amount for 1870 has been estimated at \$8,000, in order to bring the years's receipts from this source up to about the average amount.

(b.) *The $\frac{1}{10}$ -mill Tax.*—The receipts from this source began in the year 1874, as the result of the act passed by the Legislature in 1873. From 1874 to 1881 inclusive (eight years), the receipts for each *Calendar year* should have been \$31,500; since 1881, \$40,500. The actual receipts for each *fiscal year* down to September 30, 1883, are shown in Table II.

TABLE II.

RECEIPTS ON ACCOUNT OF 1-20-MILL TAX FROM 1874 TO 1883.

For the Year Ending	Amount Rec'd.	Remarks.
June 30, 1874-----	\$15,000 00	Two quarters, fully paid.
" " 1875-----	31,500 00	Four " " " "
" " 1876-----	31,500 00	" " " " "
" " 1877-----	23,625 00	Three quarters, 1 quarter in arrears.
" " 1878-----	31,500 00	Four " " " "
" " 1879-----	31,500 00	" " " " "
Sept. 30, 1880-----	47,250 00	Six " fully paid.
" " 1881-----	31,500 00	Four " " " "
" " 1882-----	38,250 00	" " " " "
" " 1883-----	40,500 00	" " " " "

The table shows that in the years 1877, 1878, and 1879, the General Fund had properly to its credit, each year, an additional quarter's receipts on account of the $\frac{1}{10}$ -mill tax. The proper sum will be found credited to the fund in Table III.

II. Turning to the second of the two branches of inquiry, it is necessary to ascertain the amount of indebtedness at the close of each fiscal year, and the amount of fees collected in advance.

(a). *Outstanding Indebtedness.*—Leaving out of account, as previously stated, the smaller items of incidental expenses, the amount of which cannot now be accurately ascertained, the only two items of importance are *loans*, and *pay-rolls* for salaries already due and payable on the first day of the following fiscal year. Detailed information on these points has been obtained, except for the years 1874, 1875, and 1878. In 1874 and 1875, it is probable that the salaries were paid before the accounts for the year were closed. For 1878 I have estimated the amount due as \$16,400. In 1876 and in 1877, the Finance Committee did not report separately the special and the general pay-rolls; but, with the aid of the stubs in the Warrant Book, I have ascertained very closely the amounts belonging to each. The sums properly chargeable to the General Fund are given in table III.

(b). *Fees Collected in Advance.*—The practice of collecting fees in advance began in the year 1880, when the date of the close of the fiscal year was changed from June 30 to September 30. It is well known that students begin to register and to pay their fees for the ensuing year early in July and that they come in large numbers in the last few days of September. The sums received from this source are given in Table III. By way of explanation of the relative smallness of the sums collected in 1880 and in 1881, it may be said that in those years the Treasurer closed his accounts on September 22d and September 27th, respectively, in order to get time for the preparation of his quarterly report, complete in form, by September 30. The actual receipts of the last few days of September were reported as belonging to the next quarter. In 1882 and 1883, the accounts were kept open until the last day of the quarter. For the last two years a deduction has been made from the gross receipts, on account of small sums refunded to students.

Table III, page 475, has been constructed to show the condition of the General Fund in the several years from 1869 to 1883, after the cash balances on hand, as reported by the Finance Committees, have been modified in accordance with the principles above set forth. A few of the entries need a word of explanation. Prior to the year 1875 it does not appear that there were any "special" accounts to be treated apart from the

general fund, and the balance on hand at the end of each year has accordingly been credited to that fund. For the years 1876, 1877, and 1878, the reports do not distinguish so sharply between the two classes of accounts as it has been the custom to do since 1878. The report for 1876 gives the total balance on hand as \$24,046.34, but it also contains the data for ascertaining that the sum of \$5,806.52 still stood to the credit of "special" accounts. The difference between the two sums I have taken as the balance in the General Fund.

The deficits for 1877 and 1878 were ascertained by comparing the reports for different years, as follows. In the volume of Regents' Proceedings for 1876-81, page 429, an analysis of the balance on hand June 30, 1878, shows that the special accounts had to their net credit \$13,814.13 (being the difference between credit and debit balances) and that the General Fund was overdrawn \$3,702.24. In the same volume, page 293, the excess of receipts over disbursements in the special accounts for the year 1877-78, is given as \$11,061.14. The difference, \$2,752.99, was, therefore, the amount of the special balances, June 30, 1877; and, as the actual cash balance that day was only \$156.17, the General Fund must have been overdrawn \$2,596.82, the amount adopted for use in the table.

TABLE III.
SHOWING THE CONDITION OF THE GENERAL FUND FROM 1869 TO 1883.

For the Fiscal Year ending	Balance shown by Reports of Finance Committee.		Due from the State Treasurer on ac- count of		Outstanding Indebt- edness.		Fees Col- lected in advance.	Corrected Balance.	
	Surplus.	Deficit.	Interest.	1-20th Mill Tax.	Loans and Warrants.	Pay Roll.		Surplus.	Deficit.
June 30, 1869.....	\$21,667 04		\$ 8,000 00		\$ 1,150 00	\$ 9,283 75		\$11,223 29	
" " 1870.....	14,798 27					11,162 50		11,635 77	
" " 1871.....	24,649 08				537 56	9,687 50		14,961 58	
" " 1872.....	19,400 21					14,828 83		4,013 82	
" " 1873.....	17,051 71					15,252 50		1,789 21	
" " 1874.....	4,410 75				13,000 00				
" " 1875.....	2,294 11				3,500 00				
" " 1876.....	18,239 82	\$2,596 82			13,500 00	15,583 32			\$ 8,589 25
" " 1877.....		3,702 24			17,000 00	16,218 75			1,205 89
" " 1878.....			13,410 01	\$7,875 00		16,400 00			10,843 50
" " 1879.....	12,565 44		8,446 47	7,875 00		16,400 00			14,530 56
Sept. 30, 1880.....	13,262 74		9,084 93			22,112 50		12,875 37	
" " 1881.....		665 71	8,602 95			22,927 75			15,919 71
" " 1882.....	13,676 80		8,621 74			25,517 50			30,922 72
" " 1883.....	26,050 69		8,548 60		4,000 00	25,712 50	\$15,673 00		39,616 85
							33,915 00		37,576 81

With the preparation of Table III. the inquiry I first engaged in may be regarded as completed; but the table itself has suggested additional questions, and I have been led to pursue the subject a little farther.

An inspection of the last columns of the table shows that since 1873 the General Fund has been in arrears every year but one, and that the deficit has increased very rapidly since 1879. A portion of this deficit, however, especially in recent years, is more apparent than real; for it must always have been the case that extensive purchases of fuel, laboratory supplies, and other appliances for use in the year to follow, were made before the opening of the college year in the fall, and the cost of these, if known, might properly be deducted from the debit balances in the table—at least, since 1880.

Without attempting to trace out in detail the causes of all the changes in the fund from year to year, it will be worth while to examine whether there is any simple and easy explanation to be found for some of the most marked of these changes. In comparing the earlier years with the later, for example, account must be taken of the fact that the Board of Regents from 1869 to 1874 had control of the expenditure of other moneys than those belonging to the General Fund. Table IV. shows how rapidly two such funds were expended. The "Reserve Fund" represented the proceeds of the sale of real estate belonging to the University in Detroit. The State Aid Fund does not appear in the reports after 1872; nor the Reserve Fund after 1874.

TABLE IV.

BALANCES IN STATE AID FUND AND RESERVE FUND.

For fiscal year ending	State Aid Fund.	Reserve Fund.
June 30, 1869 -----	\$21,330 77	\$17,166 00
" " 1870 -----	7,988 29	17,873 00
" " 1871 -----	3,521 49	19,247 88
" " 1872 -----	1,730 25	19,260 00
" " 1873 -----		21,382 67
" " 1874 -----		9,000 00

Considering the series of years as a whole, an increasing deficit in the General Fund indicates that the income has not kept pace with the outgo; and this leads to an inquiry into the receipts and expenditures from year to year. From Tables I. and II. it will be seen that the income from University Interest

has been practically constant since 1869, and that the proceeds of the $\frac{1}{10}$ -mill tax since 1881 have been \$9,000 a year more than they were previous to that date. The only other regular and important revenue is drawn from fees paid by students. With increasing numbers of students, the receipts from fees have increased, and the average amount paid into the treasury by each student has also increased. How extensive and how rapid this increase has been will be seen by an inspection of Table V.

In this table the column of gross receipts has been made up directly from reports of Finance Committees down to 1879. For the four following years, the reported sums have been corrected so as to eliminate the effect of the advance fees collected between June and October. For the last two years, the sums refunded to students during the year have also been deducted. The figures showing the number of students in attendance have been taken directly from the Calendar for each year; they differ slightly from the figures given for a part of the same time in a report on page 266 of the volume of Regents' Proceedings for 1876-81.

TABLE V.

RECEIPTS FROM STUDENTS' FEES, 1869 TO 1883.

For fiscal year ending	Receipts.	Number of Students in attendance.	Average Payment.
June 30, 1869.....	\$22,009 00	1114	\$19 75
" " 1870.....	22,039 04	1112	19 82
" " 1871.....	22,010 00	1110	19 83
" " 1872.....	22,905 00	1207	18 98
" " 1873.....	23,005 00	1163	19 78
" " 1874.....	20,210 00	1105	18 29
" " 1875.....	29,255 00	1191	24 57
" " 1876.....	29,800 00	1127	26 44
" " 1877.....	34,570 00	1110	31 14
" " 1878.....	47,335 00	1230	38 48
" " 1879.....	58,256 82	1372	42 46
Sept. 30, 1880.....	61,035 93	1427	42 77
" " 1881.....	62,466 13	1534	40 72
" " 1882.....	65,597 35	1534	42 11
" " 1883.....	69,097 15	1440	47 98

Tables I., II., and V. show that there has been on the whole in recent years a gradual increase of receipts to the credit of the General Fund. The increasing deficiency in the fund must, therefore, be explained by a more rapid increase of expenses. The charges against the fund fall almost without exception under the two heads of current expenses and salaries. Other outlays or charges, of an occasional or extraordinary nature, such

as transfers to special accounts and the like, which appear in some of the reports, need not be taken into further consideration at this time. In Table VI. will be found the amounts paid for current expenses and for salaries from 1869 to 1883. Prior to 1878 the reports do not take separate account of the salaries paid from special appropriations.

TABLE VI.

SALARY AND CURRENT EXPENSE ACCOUNTS FROM 1869 TO 1883.

For the fiscal year ending	Salary Account.		Current Ex pense.
	Total Pay-Roll.	General Pay- Roll.	
June 30, 1869--	\$ 43,658 56		\$24,909 28
" " 1870--	52,922 50		16,195 31
" " 1871--	60 776 67		18 670 69
" " 1872--	65,689 16		17,462 23
" " 1873--	73,392 16		19,524 65
" " 1874--	92,719 37 [Five Quarters]		20,704 30
" " 1875--	78,117 00 [Four "]		28,438 35
" " 1876--	70,816 25 [Three "]		28 985 43
" " 1877--	92 105 82 [Four "]		29,647 41
" " 1878--	86,671 08	\$ 71,018 20	30,002 98
" " 1879--	92,392 74	70,790 00	42,581 67
Sept. 30, 1880--	124 777 92 [Five Quarters]	105,037 17	72,468 70
" " 1881--	110,678 80	99,541 50	63 800 27
" " 1882--	118,390 82	104,740 82	42 389 35
" " 1883--	125,599 89	110,759 99	42,556 86

An inspection of this table will show that, while in both classes the expenditure now is greater than it was fourteen years ago, yet that in the last four or five years the increase has been by far most marked in the salary account, the annual pay-roll having increased between 1879 and 1883 by the sum of \$39,969.99. It becomes important to examine into this branch of the inquiry somewhat more closely, and to try to find out in what way this increase has been brought about.

In order to put the data in such a shape as to be easily studied, I have combined in Table VII.* the quarterly pay-rolls (except those paid from special appropriations) for five and a half years, beginning with the quarter ending June 30, 1878. Where any one has received a part of his salary from a special fund, the fact is indicated in the table by a ring around the figures. The table shows at a glance that the increase in the pay-roll has not been due so much to an increase of individual salaries as to an increase in the number of persons to be paid. The last five years has been a period of rapid growth, and within that time the

*Tables VII. and VIII. are on file.

University has developed largely in all directions. By aid of the table it would be easy to point out the lines along which the University has increased in efficiency from year to year, but such an inquiry would go beyond the scope of the present paper. More important for the purpose now in view is a careful comparison of the earlier pay-rolls with those of later date. For such a comparison I have selected the rolls which belong to the academic years—1878-79 and 1882-83. A comparison by academic years is more satisfactory, for the reason that the salaries paid during any given fiscal year cover parts of two academic years; and consequently any given annual report would take into account only a part of the salary of any officer or employee whose term of service did not fall in both years. The aggregate expenditure for an academic year will differ only slightly from that of the fiscal year ending at nearly the same time.

Table VIII. contains in parallel columns the salaries paid from the General Fund for the two years above mentioned, and shows also the increase or decrease in each case. Where the same professorship or other position was held by different persons in the different years, the two names are bracketed together. Mr. Condon's salary for 1878-79 (\$360.00), which was paid, under the system then in operation, from the laboratory receipts, is included here as a proper charge to the salary account of that year. The aggregates for the two years are as follows:

1878-79	\$ 70,987.50
1882-83	110,829.99
Increase	\$ 39,842.49

In the table the net increase is exhibited as the difference between a gross increase of \$12,882.49 and a decrease of \$3,040.00. In regard to this decrease it may be said that it does not all represent an actual decrease of expenditure. For example, the positions held in 1878-79 by Drs. A. C. Maclean, North, and Ayres, were afterwards filled by other persons, though not immediately by those occupying corresponding positions in 1882-83; and the work done by Dr. Rose has been taken up in part by Dr. Vaughan, and in part by others.

The net increase may be regarded as due to three causes:

- (1) The assumption of special accounts after legislative appropriations had been exhausted;
- (2) increase of individual salaries;
- (3) increase of working force.

(1). By referring to Table VII. it will be seen that in 1878-79 the sum of \$10,900.00 was used from Special Funds for salaries

that were subsequently paid from the General Fund. These salaries and the funds that provided them were as follows :

A. B. Palmer,.....	\$ 700.00	Extension of Medical Term.
C. L. Ford	700.00	" " " "
G. E. Frothingham,.....	700.00	" " " "
D. Maclean,.....	700.00	" " " "
E. S. Dunster,.....	700.00	" " " "
J. W. Langley,.....	700.00	" " " "
W. J. Herdman,.....	300.00	" " " "
C. L. Ford,.....	400.00	Dental College.
W. H. Pettie,.....	2,000.00	Professorship of Geology.
C. K. Wead,.....	1 600.00	Professorship of Physics.
C. S. Denison,.....	900.00	School of Mines.
B. W. Ceeever,.....	750.00	" " " "
C. H. Stowell,.....	750.00	Physiological Laboratory.
Total.....	\$10,900.00.	

(2). From the data given in Tables VII. and VIII. it can be easily seen that the total increase of individual salaries amounted to \$8,119.16. This sum, diminished by \$700.00, the apparent decrease in the departments of Astronomy and Modern Languages, leaves as the net increase \$7,419.16.

(3). In a similar way Table VIII. contains the data for showing that the net increase due to additions to the working force amounts to \$21,523.33. The number of names on the pay-roll for 1878-79, is 64. For 1882-83 the number is 95. From this latter number, three should be deducted, on account of changes in the force during the year—Messrs. Tolchard, Geisler, and Textor having resigned, and their places having been filled by others. The net increase in force is 28.

It is not easy to say precisely how much of the increase in pay-roll should be charged to each of the several departments of the University. Some of the instructors are engaged in the work of more than one department at the same time, and the Chemical Laboratory stands in close relation to all the others—the Law School only excepted. The following summary statement is intended to be a fair approximation to the truth :

DISTRIBUTION OF INCREASE AMONG DEPARTMENTS.

Literary Department (including School of Pharmacy and Chemical Laboratory).

Assumption of Special Salaries.....	\$ 5,250.00	
Increase of Salaries.....	4,790.00	
Increase of Force.....	12,130.00	\$ 22,170.00

Medical Department.

Assumption of Special Salaries.....	5,650.00	
Increase of Salaries.....	2 000 00	
Increase of Force.....	4,350.00	12,000.00

Law Department.....	1,516.66
Library.....	700.00
Museum.....	480.00
Office Expenses.....	1,063.33
Grounds and Incidentals.....	1,917.50

Total..... \$39,842.49

In the hope that the preceding paper, which may be styled **A Partial Study of the Condition of the General Fund of the University**, may have some value for the Board I now respectfully submit it for your consideration.

W. H. PETTEE.

Regent Van Riper, Chairman of Medical Committee, presented and read a communication from Mr. Fullerton B. Malcolm, in relation to his failure to pass the required examination for graduation in medicine, which on motion of Regent Grosvenor was referred to the Dean of the Medical Faculty, with instructions to report the facts in this case to the Board at its next meeting.

Regent Blair, member of the Law Committee (to whom was referred the resignation of Professor Thomas M. Cooley), submitted the following resolution, which was adopted by the full vote of the Board.

Resolved, That the resignation of Prof. Thomas M. Cooley is at his request accepted. And in accepting this resignation after so long and honorable a service, the Board of Regents desire to express to Judge Cooley their regret that he has felt compelled to entirely sever his connection with the University, their earnest appreciation of the great service he has rendered the University in the past, and the hope that his future may continue to realize his own high ideals and the predictions of his friends.

Regent Grosvenor submitted the following resolution :

Resolved, That the course in the Dental College be, and the same is, hereby extended so as to embrace two terms of nine months each ; and that the corps of instruction consist of one Professor, who shall also act as Dean, whose salary shall be two thousand dollars (\$2,000) ; one Professor whose salary shall be eighteen hundred dollars (\$1800) ; one Instructor with a salary of nine hundred dollars (\$900), and one Assistant at a salary of five hundred dollars (\$500) ; and the Executive Committee are hereby authorized to fill any vacancy that occurs in the Faculty.

The above resolution was adopted by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

On motion of Regent Duffield, Professor Albert B. Prescott was appointed Director of the Chemical Laboratory without additional compensation.

Regent Duffield submitted the following resolution :

Resolved, That Homer H. Kingsley, A. B., be appointed Instructor in Mathematics for one year, at a salary of nine hundred dollars (\$900).

The above resolution was adopted by the following vote :

Ayes.—Regent Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

Miss Elizabeth M. Farrand, Assistant Librarian, having decided to enter upon the study of medicine, had placed her resignation in the hands of the President, but on further consideration withdrew it, and offered to devote one-half time to the work in the Library during the coming year, in order that some other person might have proper instruction in the work. Regent Duffield submitted the following resolution :

Resolved, That Miss Elizabeth M. Farrand be employed as Assistant Librarian for the coming year at a salary of three hundred dollars (\$300), and that the Executive Committee be authorized to employ another Assistant, at a salary of two hundred dollars (\$200).

The above resolution was adopted by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Ayes.—None.

Regent Duffield moved that John Dewey, Ph. D., be employed as Instructor in Philosophy for one year, at a salary of nine hundred dollars (\$900). The motion was carried by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

Regent Van Riper, Chairman of Medical Committee, submitted the following resolutions :

Resolved, That Ida C. Brigham be appointed Assistant Demonstrator of Anatomy, at a salary of \$100.

Resolved, That Dr. Geo. A. Hendricks be appointed Secretary of the Medical Faculty, at a salary of \$100.

Resolved, That Prof. A. B. Palmer be allowed to select his own Assistant, at a salary of \$100.

Resolved, That Dr. J. N. Martin be appointed Assistant to the Professor of Obstetrics and Diseases of Women and Children, and Clinical Gynæcology, at a salary of \$100.

Resolved, That Prof. Maclean be allowed to nominate his own Assistant, at a salary of \$100.

Resolved, That Dr. Arthur G. Oven be appointed Assistant to the Professor of Materia Medica, Ophthalmic and Aural Surgery, and Clinical Ophthalmology, at a salary of \$100.

Resolved, That Dr. D. W. Steiner be reappointed Assistant to the Professor of Physiology, at a salary of \$100.

J. J. VAN RIPER.

The above resolutions submitted by Regent Van Riper were adopted by the following vote:

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

The President called the attention of the Board to the fact that hereafter the Commencement Exercises in all the Departments would occur in June, and that in view of the large classes graduating at that time, the room now used for the dinner would be entirely inadequate for the purpose; and that some action of the Board would be necessary to meet the case. Whereupon Regent Blair moved that the subject be referred to the University Senate, with the request that they consider and make some recommendation to the Board.

The motion of Regent Blair was carried.

Regent Shearer submitted the following resolution:

Resolved, That the Auditing Board be and are hereby requested to assign to the Mechanical Laboratory a room suitable for recitations, and storage of models, when the same can be done; also to provide a room of cheap construction for securing the tools for the iron room, and to have the following named works and improvements made for the Mechanical Laboratory,

viz : To construct a plank walk leading to the entrances ; to repair the doors and locks ; to provide a wood planer and sawing machine, and a new pulley, counter shaft, and grindstone.

The above resolution of Regent Shearer was adopted by the following vote :

Ayes.—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, and Clark.

Nays.—None.

On motion of Regent Grosvenor the Board adjourned to October 14th, at 7 o'clock, P. M.

JAMES H. WADE,
Secretary.

AUGUST MEETING.---SPECIAL.

1884.

UNIVERSITY OF MICHIGAN,
ANN ARBOR, August 25, 1884. }

The Board of Regents assembled in special session in the room of the President at 7½ o'clock P. M.

Present—the President, Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

The minutes of the last meeting not having been printed, the reading of the same was dispensed with, on motion of Regent Grosvenor.

On motion of Regent Grosvenor the Board went into executive session, after which the business of the open session was resumed.

Regent Willett moved that the action taken at the July meeting in relation to the salaries of the Law Professors be reconsidered. The motion was carried by the full vote of the Board.

Regent Grosvenor moved that all questions relating to the salaries of the Law Professors be referred to the Law Committee for consideration, and that they report their conclusions at this meeting. All the members voting in favor of the motion of Regent Grosvenor, it was declared carried.

Regent Joy, chairman of the Law Committee, submitted the following recommendations :

The Law Committee beg leave to recommend to the Board of Regents that the salaries of Professors Campbell, Kent, and Wells be continued for one year at twenty-two hundred dollars

(\$2,200), Judge Campbell to do his duties for two-thirds of the year for *pro rata* pay. That the salaries of the newly appointed and other Professors in the Law School be fixed at sixteen hundred dollars (\$1,600).

The above recommendations of the Law Committee were adopted by the Board, by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

Regent Willett moved that Mr. H. B. Hutchins be appointed a Professor in the Law School, at a salary of sixteen hundred dollars (\$1,600), provided he reside in Ann Arbor, and enter upon his duties October 1st. The appointment was made, by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

The account of W. A. Tolchard, for services rendered in 1883, was referred to the Finance Committee.

The Executive Committee submitted the following report :

UNIVERSITY OF MICHIGAN, }
August 25, 1884.

The Executive Committee beg leave to report to the Board of Regents, that on the recommendation of Dr. Prescott, Director of the Chemical Laboratory, they have made appointments of Assistants in the Chemical Laboratory for the University year 1884-5 as given below. They took action, supposing that no special meeting of the Board was to be held. They submit this report to you for adoption, if it meets with your approbation :

L. L. Van Slyke, Ph. D., Assistant in Qualitative Chemistry, same salary as last year, \$500.

Charles F. Adams, A. M., Assistant in the Chemical Laboratory, same salary as last year, \$100.

Theodore Royer, Jr., A. B., Ph. C., Assistant in Quantitative Analysis, same salary as his predecessor, \$250.

Arthur L. Green, Ph. C., Assistant in in Chemical Laboratory, same salary as his predecessor, \$130.

Kate C. Johnson, Ph. C., Dispensing Clerk, same salary as her predecessor, \$600.

Respectfully submitted,

JAMES B. ANGELL,

For the Committee.

The report and recommendations of the Executive Committee were adopted, by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

Regent Van Riper read a communication from Dr. A. B. Palmer, Dean of the Department of Medicine and Surgery, setting forth the reasons why the Medical Faculty withheld from Mr. P. B. Malcolm their recommendation for the degree of M. D. On motion of Regent Grosvenor the action of the Faculty was approved.

On motion of Regent Van Riper, Dr. Newton Baldwin was continued as Lecturer in the Homœopathic Medical College for the ensuing year, at a salary of sixteen hundred dollars (\$1,600).

On motion of Regent Van Riper, Dr. A. C. Cowperthwaite was elected Professor of Materia Medica, Pharmacology and Clinical Medicine in the Homœopathic Medical College; but in consideration of not being able to be present constantly during the present college year, his salary for the ensuing year was fixed at sixteen hundred dollars (\$1,600).

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

On motion of Regent Van Riper, A. Dolan, M. D., was appointed Assistant to Dr. T. P. Wilson, at a salary of one hundred dollars (\$100).

Regent Van Riper moved that the salary of the Instructor in Mechanical Dentistry be advanced to twelve hundred dollars (\$1,200); that the title be changed to

Professor; and that the position be tendered to Dr. W. H. Dorrance.

The motion was carried, by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

Regent Grosvenor submitted the following resolution :

Resolved, That three hundred dollars (\$300) be and is hereby appropriated, from the General Fund, for the current expenses of the department of General Chemistry.

The above resolution was adopted, by the following vote :

Ayes—Regents Duffield, Van Riper, Shearer, Grosvenor, Blair, Joy, Clark and Willett.

Nays—None.

On motion, the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

There being no quorum present, the Board adjourned to Thursday, October 2d, at 7½ o'clock P. M., instead of to October 14th, as fixed at the July meeting.

JAMES H. WADE,

SECRETARY.

OCTOBER MEETING.

1884.

UNIVERSITY OF MICHIGAN,
ANN ARBOR, October 2, 1884. }

The Board of Regents assembled in the room of the President at 7:30 o'clock, P. M.

Present, the President, Regents Shearer, Grosvenor, Blair, Clark and Willett.

Absent, Regents Duffield and Van Riper.

The meeting was called to order and opened with devotional exercises by the President.

On motion of Regent Grosvenor, the Secretary was instructed to correct the minutes of the last meeting on page 486 so as to make the salary of Charles F. Adams, A. M., Assistant in the Chemical Laboratory, read \$130 instead of \$100, as printed, and the minutes thus corrected were approved.

Regent Grosvenor moved that Eugene V. Riker be appointed Assistant in the Chemical Laboratory at a salary of one hundred and thirty dollars (\$130).

The motion of Regent Grosvenor was carried by the following vote:

Ayes—Regents Shearer, Grosvenor, Blair, Clark and Willett. Nays—None.

The President stated that his annual report had been prepared and was held subject to the pleasure of the Board. Regent Grosvenor moved that the report be read by the President. The motion prevailed.

PRESIDENT'S ANNUAL REPORT.

To the Honorable the Board of Regents:

I beg leave to submit to you my Annual Report for the University year, ending September 30th, 1884.

The following is a statement of the changes in the Faculties:

In November, 1883, Margaret Humphreys, D. D. S., was appointed Assistant in Clinical Dentistry, in the place of U. D. Billmeyer, D. D. S., resigned.

In June, 1884, Elisha Jones, A. M., Associate Professor of Latin, was given leave of absence for one year, for study and travel in Europe, and Instructor Charles M. Gayley, A. B., was made Acting Assistant Professor of Latin for one year, and Benjamin L. D'Ooge, A. M., was appointed Instructor in Latin for the same period. O. F. Chadbourne, M. D., was elected Resident Physician and Surgeon in the University Hospital, in the place of George F. Heath, M. D., resigned, and W. H. Sawyer, M. D., was appointed to the same post in the Homœopathic Hospital, in place of W. H. Davis, M. D.

In July, Dr. A. B. Prescott was appointed Director of the Chemical Laboratory, John Dewey, Ph. D., Instructor in Philosophy for one year, and Homer H. Kingsley, A. B., Instructor in Mathematics for one year. Hon. Thomas M. Cooley, LL. D., resigned the Jay Professorship of Law and the Professorship of Constitutional and Administrative Law in the School of Political Science.

In August A. C. Cowperthwaite, M. D., was elected Professor of Materia Medica, Pharmacology and Clinical Medicine in the Homœopathic Medical College, the term of Dr. H. C. Allen, as Lecturer on those subjects having expired. H. B. Hutchins, Ph. B., was elected Professor in the Law School.

The degrees conferred are as follows:

DEGREES OF EXAMINATION.

Bachelor of Letters.....	10
Bachelor of Science.....	5
Bachelor of Science (Civil Engineering).....	2
Bachelor of Philosophy.....	14
Bachelor of Arts.....	52
Master of Science.....	3
Master of Philosophy.....	1
Master of Arts.....	13
Doctor of Philosophy.....	2
Doctor of Medicine (Dep't of Medicine and Surgery).....	85
Bachelor of Laws.....	133
Pharmaceutical Chemist.....	38
Doctor of Medicine (Homœopathic College).....	19
Doctor of Dental Surgery.....	24
	<hr/>
	401

HONORARY DEGREES.

Bachelor of Arts.....	1
Civil Engineer.....	1
Master of Arts.....	1— 3
	<hr/>
	404

The total number of students in attendance was as follows:

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Resident Graduates.....	19
Candidates for a Degree.....	423
Students not Candidates for a Degree.....	97 — 539

DEPARTMENT OF MEDICINE AND SURGERY.

Resident Graduates.....	2
Third Year Students.....	90
Second Year Students.....	109
First Year Students.....	129 — 382

DEPARTMENT OF LAW.

Seniors.....	128
Juniors.....	177 — 305

SCHOOL OF PHARMACY.

Resident Graduates.....	2
Second Year Students.....	41
First Year Students.....	34 — 77

HOMŒOPATHIC MEDICAL COLLEGE.

Students—Total in the College.....	57
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COLLEGE OF DENTAL SURGERY.

Students—Total in the College.....	67
	— —
	1377

By comparing the above figures with the statement for the preceding year it will be seen that there was an increase of fourteen students in the Literary Department and a considerable decrease in the aggregate attendance in the Professional Schools, chiefly in the Department of Medicine and Surgery and in the Law School.

Sixty per cent. of the students in the Literary Department, forty per cent. of those in the Professional Schools, and nearly forty-nine per cent.—a somewhat larger proportion than last year—of all the students in the University were from Michigan. As usual nearly every part of our country, and some foreign lands, England, Japan, the Hawaiian Islands, Costa Rica, and the British American Provinces, were represented in our body of students.

The number of women in the University was 180, distributed as follows:

Literary Department.....	117
Department of Medicine and Surgery.....	43
Law Department.....	1
School of Pharmacy.....	2
Homœopathic College.....	12
Dental College.....	5

The work of the University in all its Departments has gone on with great harmony and efficiency through the year.

Our organization of the work in the Literary Department is proving very satisfactory. It is believed that the difficulties, which many Eastern colleges are encountering from the differences of opinion concerning the importance of the ancient classics, are best met by the plan which has been followed here for many years. Courses are established which omit one or both of the ancient classic tongues, Greek and Latin, but which furnish a generous culture by the pursuit of other linguistic studies and of scientific, historical and literary branches. It has, however, not been thought wise to break with the traditions of the past by conferring the degree of Bachelor of Arts on those who have not been trained in both Latin and Greek. Attainments of other kinds are recognized by other degrees. By the establishment of four different courses, each leading to an appropriate degree, large liberty is left for choice of the general line of study to be pursued. In each of these courses for the first year and a half or two years the studies are for the most part prescribed, but during the latter half of the term of collegiate life, except in the technical work of engineering, an almost unrestrained freedom in the selection of studies is granted to the student. While it seems impossible that those who approve and those who disapprove of the plan of making instruction in the ancient classics an essential part of a liberal education, shall be brought to an agreement in their views, there is good reason why a University should furnish a generous training both to those who do and to those who do not desire the classical training. Our flexible system accommodates itself to the public wants and is easily administered without friction or lack of harmony. As a matter of fact a much larger number of students always choose the full classical course than any other offered.

The number of our students of Engineering, especially of Civil and Mechanical Engineering, is becoming so great that we are somewhat embarrassed to make proper provision for them. The establishment and development of

our Mechanical Laboratory and shops have awakened a new and enthusiastic interest in Mechanical Engineering. In providing them we simply aimed at the outset at furnishing assistance to Civil Engineers in their studies. But there seems so great a demand for instruction in Mechanical Engineering and our plant of machinery and tools adapted to such work is so considerable, and the public are so thoroughly awakened to the need of men well trained to guide our great mechanical industries, that it is a question for the State to consider whether she will not give us the means to enlarge our work in this direction. Some of the States about us are already provided with shops and machinery, with which our outfit is not worthy to be compared. No one doubts that Michigan is destined to be the seat of manifold and varied industries. Will she not be wise to train some of her sons with the help of the best scientific knowledge and practical skill to direct with the greatest efficiency those pursuits which depend for success on a complete knowledge of mechanism? The generosity of a number of manufacturers of machines and tools to us has been most gratifying. They have furnished us with some of the choicest productions of their shops.

Another year's experience with the "university system," which was described in my last report, confirms me in the conviction that it is of great service to those students who desire to concentrate their work in the last two years of their course or in post-graduate study upon a few lines of research. The tendency of the system is to lead scholars to pursue their work in a most generous, unartificial, and earnest spirit, and to accomplish more than they would under the mere stimulus of the ordinary class-room methods. Some of the examinations of the candidates for graduation under this system were most brilliant and gratifying.

Excellent results have been attained by students in the School of Political Science this year. Some of the papers and theses, which are the fruit of their researches,

are likely to appear in print as valuable contributions to the discussion of important historical and political subjects. It were much to be desired that in some way this school could be brought into closer relations with the Law Department, many of whose students would gladly and profitably avail themselves more fully than they now can of the instruction it gives on economic and historical and governmental questions.

An important step has been taken this year in admitting schools outside of Michigan to the privilege hitherto accorded to Michigan schools alone, of sending students to the University to be received without examination. Only such schools in Michigan as had been visited by a Committee of the Faculty and formally approved by the Faculty were entitled to have their diplomas thus recognized by us. We have received students from approved schools on this plan for thirteen years. About half of our new class are now accepted every year without special examination by us. The Faculty having satisfied themselves that candidates for admission were instructed in the schools in all the preparatory work we require, and that the organization and equipment of the schools were adequate for imparting such instruction with thoroughness, have found it entirely safe to trust the certificate of the authorities, and to accept the pupils whom they reported as prepared for our studies. A careful collation of statistics proved that such pupils were, as a rule, quite as well prepared as those whom we received on examination. The many advantages of the system which have been fully set forth in previous reports, were apparent to the universities and colleges in the neighboring States, and our plan, with some modifications, has been adopted by many of them. We have often been asked by prominent schools in other States than Michigan to admit them to the privileges of the "diploma system," and after careful consideration we have decided to put academies and preparatory schools in other States on the same footing in this regard

as the schools of Michigan. We believe that this course will work no injustice to the Michigan schools, and that it will inure to the elevation of educational standards in the West and to the good of the University.

The work of the Medical Schools has proceeded harmoniously and successfully during the year. Experience shows that owing to our preliminary examinations and our extended course of study, three terms of nine months each, we secure a higher and higher grade of attainments from year to year in our applicants for admission. It is to be hoped that we may at no distant day be able to require as much scholarship for admission as we now ask in our School of Pharmacy.

The extension of the term in the Law School to nine months meets with marked favor from the profession and from our students. Time has been gained, not only for more lecturing, but for more thorough quizzing and drilling of students.

It is with the deepest regret that we have been obliged to yield to Professor Thomas M. Cooley's desire to be released from his duties in the University. He has been a member of the Law Faculty from the founding of the school in 1859, and most of the time its Dean, and a member of the Faculty of the School of Political Science since its establishment in 1881. His wide reputation as a jurist and an author attracted students hither from all parts of the land. His lucid and learned lectures and his more informal instruction and counsel so kindly given at all times bound his pupils to him and to the Law School by the strongest ties. We must count it a singular good fortune which has secured for a quarter of a century to our Law Department the uninterrupted services of so eminent jurists and teachers as Judge Cooley and his colleague upon the bench, who consents to aid us for at least another year.

The School of Pharmacy pursues its course so unosten-

tatiously that even many upon our own grounds may not appreciate the substantial value of its excellent work. It has been rapidly raising its own standards and has thus been compelling, as abundant testimony informs us, the elevation of the standards of other schools and of pharmacists generally. It has not sought to attract large numbers so much as to raise the grade of studies mastered in its classes.

The Dental College, like all the other departments of the University, has now lengthened its curriculum to two terms of nine months each. This extension was not only called for by the desire of the Dental profession, but also by the actual needs of the students, who were, in fact, often obliged to remain three months beyond the prescribed term of six months, in order to complete the work required of them. Provision has also been made to meet a demand for post-graduate work. The College has thus far ranked as one of the two or three whose diplomas are recognized in Europe. The elevation of its course, which will be feasible under this extension of the term, will add to its already high reputation. It needs a little addition to its fund to enable it to achieve the full success which is easily within its reach.

One of the most important events in our history this last year was the completion of the Library Building. Various causes delayed the builder in finishing the structure. But we were able to occupy it on the 12th of December last. It was thought fitting to celebrate the occasion in a becoming manner. Public Exercises were held in University Hall and attended by eminent friends of the University from various parts of the State. The building has been found to be very satisfactory under the tests of actual use. It is convenient, easily warmed in the winter, and always well ventilated. The spacious reading room and the rooms devoted to the special use of advanced students are most thoroughly appreciated, as is shown by the greatly increased number of volumes which are read.

The Art Gallery is also admirably adapted for the display of our statuary, engravings, pictures, medallions and coins. The generous appropriation made by the last Legislature has enabled us to make most valuable additions to our collection of books. In our purchases special attention has been paid to securing large and expensive sets of books of reference, which we have not heretofore had the means to procure. It is to be hoped that subsequent Legislatures will enable us to increase rapidly for a few years our still defective collection, until the scholars from all parts of the State may have access to one Library adequate to their most pressing needs. We had, on September 30th, according to the Librarian's count, 44,880 bound volumes and 10,020 pamphlets.

From the reports of the curators of the museums the following facts are gained.

Considerable work has been done in the Botanical museum in preparing and arranging specimens of fruits, seeds, fibres, sections of native and foreign woods and other vegetable productions. A number of additions have been made to the Homœopathic museum, and also to the Dental museum. In the museum of Zoölogy several hundred native birds have been mounted for the use of students, and the work of arranging in the cases and labelling the large collections on the second floor has been carried on, but much remains to be done. There are many valuable skins of mammals which ought to be mounted soon. The south room in the third story of the Museum has been furnished with excellent cases, which have been filled with specimens illustrative of archæology and ethnology. But more cases still are needed for our collection. There has been a gratifying increase in the mineralogical collection. Professor Du Bois, formerly of the University, sent a large and unusually rich collection of ores from Leadville, Col., Dr. Garrigues, of this city, gave us his private collection of minerals, numbering over four hundred valuable specimens, and many gifts of smaller value have been con-

tributed. The work of relabelling the collection has been carried forward, but not completed. The Museum of Applied Chemistry, comprising collections of chemical and pharmaceutical manufactures and of sets of crude materials of commercial or industrial importance, now contains 1,435 specimens. These have been provided by the contributions of friends of the University, or by the work of students of the Chemical Laboratory, or by purchase. Powers & Weightman, of Philadelphia, W. H. Schieffelin & Co., of New York, Dr. S. P. Duffield, of Dearborn, Mich., and C. C. Howell, of St. Louis, Mo. (Ph. C., class of 1870), have been conspicuous donors. The curator, Dr. Prescott, recommends—and I heartily concur in the recommendation—that a museum of Chemical Technology be developed here on the plan of the collections in South Kensington, London, and of the new medical museum at the Smithsonian Institution. The expense would not be great, but more room than we now have available would be needed. A few additions have been made to the Museum of General Geology and Paleontology. But it is very desirable that we have the means of making additions, especially of vertebrate remains, to our collections. Large supplies of desirable specimens are found in our western territories. For the lack of these our special students are suffering seriously in the prosecution of their work here. The curator of the Museum of Art and History reports that the collections are now six, viz.: 1. statuary in marble, plaster, and bronze; 2. small statuary in terra cotta; 3. engravings, etchings, photographs, and paintings; 4. the Horace White collection of medallions; 5. the Governor Bagley collection of medals; 6. the Richards collection of coins. The new gallery is found to be admirably adapted to its purpose. The room will suffice at least for the temporary housing in safety of the Lewis collection, which is to come to us. The chief additions to the museum during the year have been the gifts made by Henry Phillips, Jr., of Philadelphia, and by the late Dr. Richards,

to the collection of coins, which now contains nine hundred and forty-three specimens.

I have been informed by the executors of the will of the late Henry C. Lewis, Esq., an eminent citizen of Coldwater, Mich., that Mr. Lewis has made a most valuable bequest to the University. He provided by his will that the large collection of pictures and statuary in his Gallery shall come into the possession of the University on the decease of his widow, or at an earlier date, if it be her pleasure.

Mr. Lewis died at Clifton Springs, N.Y., where he had been temporarily sojourning for the benefit of his health, on the 18th of August last. He had been engaged for nearly twenty years in making his collection of works of art. Much of his time during two visits to Europe was devoted to this work. His gallery now contains nearly seven hundred paintings and some thirty-five pieces of statuary. In the collection are found not only copies of the chief works of the old masters, but also the best specimens from the easels of a number of the most distinguished modern artists. It is safe to say that there are few better private galleries in this country. Mr. Lewis had expended fully two hundred thousand dollars upon it. With characteristic generosity he threw it open freely to the public, and was gratified at seeing others share the pleasure which he experienced from studying the best productions of art.

Mr. Lewis's gift is by far the largest in value ever made to the University by an individual. We shall prize it greatly for its intrinsic worth. But we also value it as an evidence that individual beneficence to the University is not cut off by the fact that the State supplies our most pressing wants. We cherish the hope that the example set by Philo Parsons in the gift of the Rau Library, and by James McMillan in the gift of the Shakespearean Library, and by Mr. Lewis in this splendid gift of his Art Collection, will stimulate other generous men to remem-

ber the great needs of the University. . When the Lewis Gallery comes to the University, I think that we shall have a better collection of works of Fine Art than any other college or university in the country. This fact suggests to us at once the necessity of preparing at an early day for the organization of a School of Fine Arts as a Department of the University. The beginning of the work of such a school is already found in our course in Geometrical and Free-hand Drawing, Descriptive Geometry and Perspective. Our courses in Music would also naturally be grouped under the plan for such a Department. It would seem to be only showing a proper appreciation of the generous purposes of the donor of the choice collection of paintings and statuary which are to adorn our halls, if we should by providing proper instruction in the Fine Arts make the collection of the utmost value to all. It is to be hoped that the means for accomplishing this end may be placed at our disposal, either by private or public benefactions. It may be worthy of consideration, whether, in view of the expense of instruction in Art, we might not charge the students in an Art School higher incidental fees than are now paid for university instruction.

The Report of the Finance Committee, appended hereto, gives the items of our receipts and expenditures. With all the rigorous economy we can exercise, our income barely suffices to meet our outlay for current expenses. We have no means for meeting any of those exigencies which are sure come from time to time upon so large an institution as this. We shall be compelled to ask the Legislature for a considerable sum for repairs of our buildings. There is pressing need for an enlargement of the accommodations of the Department of Medicine and Surgery. The growth of our Engineering classes has made it in the highest degree desirable that they have a building set apart for them. There is every indication that an increasing number of students will desire instruction in

Civil, Mining, and Mechanical Engineering, especially in the latter branch. The limits of our accommodations for shop-work are already reached. We are obliged to refuse applicants for admission to the shops.

But above all we need some permanent addition to our General Fund, which is chargeable with every expenditure not met by some special appropriation of the Legislature. Its burdens increase with every step in our development. And it should be clearly understood that our real growth and development are not to be measured by an increase in the number of students. They are found rather in our improved methods of teaching, in enlarged means of illustration, in specialization of instruction. These call for more teachers, for more apparatus, for more buildings. And with every addition to our corps of instructors, to our supplies of illustrative apparatus, to our lecture rooms and shops and laboratories, there comes a new tax on our General Fund. How can this fund be increased? There seem to be only three possible ways. First, an increase in the number of students will swell it by the amount of their fees. But the fees are so small that a large addition to our number would be necessary to furnish any adequate relief. And as the colleges and universities of the west are rapidly improving, we can hardly hope to see our numbers speedily increase enough for the accomplishment of the end now under consideration. Secondly, private endowments of Professorships might relieve the General Fund to the amount of the salaries now drawn from it to sustain the chairs which might be endowed. But nothing in our history or in our present circumstances justifies us in expecting that kind of aid. The third, and so far as is now apparent, the only resource is to be found in the generous interest of the State in our prosperity. If the one-twentieth mill tax could be increased, we should have the needed relief. Our neighbor, the State of Wisconsin, imitating our law in her mode of providing for her university, fixed the tax at one-eighth of

a mill. If Michigan, which has so liberally met our needs in years past, should see fit to do for us what Wisconsin has done for the university at Madison, we should be free from solicitude for years to come. This suggestion is made with the frankness which has always characterized our utterances to the citizens of our Commonwealth concerning the needs of the University. It is their Institution. We are but custodians of it, who administer its affairs in their name and for their benefit. It is our duty to make known to them freely and without reserve what is its condition and what are its wants. Our experience has shown that we may with confidence leave it to them to say how and when its wants shall be supplied.

JAMES B. ANGELL.

Regent Grosvenor moved that the report just read by the President, be accepted and printed in the minutes, and that the usual number of copies in pamphlet form be ordered for the use of the University. The motion was carried by the following vote:

Ayes—Regents Shearer, Grosvenor, Blair, Clark and Willett. Nays—None.

The Librarian, R. C. Davis, submitted and read his annual report as follows.

To the Honorable Board of Regents of the University of Michigan :

In accordance with the requirements of the new Laws and By-Laws of the University, I have the honor to submit at this date the report on the Library, which has heretofore been made in June. In consequence of this change of date it will cover a period of fifteen months—from July 1st, 1883, to September 30th, 1884.

The statistics presented at the June meeting are reproduced, but are somewhat modified by the additions made to the library during July, August and September.

The increase of the library since July 1st, 1883, has been 6,754 volumes and 850 pamphlets.

Of these, 4,926 volumes and 6 pamphlets were bought ; 1,545 volumes and 844 pamphlets were presented ; and 287 volumes are the result of binding periodicals.

There are now belonging to the General Library 44,880 volumes and 10,020 pamphlets.

They are distributed as follows :

In the Library Building.....	43,366 vols.	9,740 pphs.
At the Observatory.....	822 "	280 "
" Dental College.....	242 "	
" Botanical Rooms.....	355 "	
" Chemical Laboratory.....	95 "	
Total.....	44,880	" 10,020 "

The sum total of bills paid is \$10,895.35.

For books and pamphlets.....	\$9,621.65
For periodicals.....	644.75
For binding and mending.....	542.45
For miscellaneous expenses.....	86.50— \$10,895.35

Bills for the transportation of books are not presented to the librarian, and do not enter into the above statement.

During the fifteen months covered by this report there were

drawn and used by readers in the Reading Room.....	105,714 vols.
Loaned to Professors during that time.....	3,237 "

Total.....	108,951
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The above, as was explained in June, does not take into account the use of the library of the School of Political Science, shelved in the East Seminary Room, nor the use of the books temporarily placed in that room and in the West Seminary Room for the use of Seminary and Post Graduate students; nor the use of a portion of the Chemical works, to which students preparing theses had free access on the floor of the Reading Room.

Seventy-eight tickets of admission to the West Seminary Room were issued to students, and thirty-seven to the East Room. The average attendance in the rooms was about twenty per cent. of the number entitled to admission.

Inasmuch as persons in the Book Room cannot be under the observation of any portion of the library force, it was thought necessary to restrict the access to it as much as possible. Members of the Faculties and other officers of the University enter freely; visitors are permitted to enter it under the guidance of an attendant. With these exceptions admission is confined to persons vouched for in some satisfactory way, and to students bringing certificates from Professors that they are trustworthy, and that they will be benefitted by access to certain books. To the two classes last described tickets of admission are given. Except when the holder of a ticket is actually in the Book Room, his ticket remains with

the desk attendant, by whom it is dated each day that it is used. Twenty-three of these tickets have been issued since January 1st, the holders of which have made 175 visits to the Book Room.

A very modest estimate of these uses of the library of which no record can be made will put them at one-third of the recorded use.

The annual inspection of the books in June showed them to be in a good condition generally. Among so many readers there will always be found some who do not know how to use books. In spite of watchfulness we find bindings loosened, paragraphs marked, leaves turned down and pages soiled. I am glad to say, however, that these things are not of frequent occurrence. In the belief that a book in good condition is less likely to be abused than one in a bad condition, pains are taken to repair all injuries at once, and no book whose appearance might suggest that it is unworthy of respect and care, is allowed to circulate.

For several years, at each annual inspection of the books at the Chemical Laboratory some volumes have been missing. As it has always happened that a part of them would be present again the next year, I have never considered them irrecoverably lost, and have not so reported them. The continued failure of a number of them to reappear, however, compels me, at last, to report them lost.

A list of the volumes—15 in number—follows:

Brand's Chemistry; Berrell's Puddling Iron and Steel; Barstow's Sulphurets; Conington's Handbook of Chemical Analysis; Cooke's Chemical Problems; von Cotta's Treatise on Ore Deposits; Faraday's Chemical Manipulation; Griffin's Chemical Handicraft; Odling's Course of Practical Chemistry; Odling's Lectures on Animal Chemistry; Otto on the Detection of Poisons; Scher and Blanford on the Blowpipe; Squire's Pharmacopœias of Seventeen London Hospitals; Storer's Dictionary of Solubilities, and Wilson's *Religio Chemici*.

I will repeat what I said in a former report concerning the books in this collection. They are necessarily more exposed to injury and loss than any other books belonging to the University—necessarily, because they must be used more or less by the student while doing his laboratory work. I do not know that anything more can be done than is done by the officers of the Laboratory to insure their safety, without interference with their usefulness.

No books are known to be lost from any of the other collections.

The Library of the Observatory has been provided with new and convenient cases for the books and a case of drawers for maps. This collection is growing fast in extent and value. Besides the volumes purchased it is in constant receipt of complimentary copies of astronomical publications from various parts of the world.

The greater portion of the sum of \$15,000, appropriated by the Legislature for the Library for the years 1883 and 1884, has been expended during the time covered by this report. With such a generous fund at our disposal we have been able to strengthen every department of the library. In literature, philosophy, and art, we have secured the best editions of many of the great writers of ancient and modern times. In science our chief purchases have been a number of the great periodical publications that, reaching back into the preceding century, are histories of particular sciences and records of their progress from year to year. In history and the economical sciences, we have aimed to secure that documentary literature that will enable the student to form an independent opinion on the special subject that he is investigating.

It was quite confidently expected that the safety afforded by a fire proof building would increase our gifts of books. While those most sanguine have been disappointed in the greatness of the increase, none have been entirely disappointed. There has been an increase.

A few volumes of great rarity and value were given as one of the donors (Dr. Cooper) expressed it, "as donations to the University on the occasion of the opening of the new Library building." They are named in the order in which they were received:

1. Walton's *Biblia Sacra Polyglotta* with Castelli's Lexicon Heptaglotton—8 vols; Folio: parchment: London: 1657. Given by Dr. Jacob Cooper, of Rutgers College.
2. *Theodorici Chyrurgia*—A parchment MS. of the 15th century. Illuminated. Given by Dr. S. A. Jones, of Ann Arbor.
3. The Works of William Hogarth, restored by James Heath. Elephant Folio. Given by Regent James Shearer, of Bay City.
4. Lives of the Greek Philosophers, 1479. A fine specimen of

- the painting of the 15th century. Given by Professor C. K. Adams.
5. "A Pamphlet published by Martin Luther in 1520, in which he gives an account of the celebrated Leipsic Disputation, held in the preceding year. A copy of the First Edition. Also given by Professor Adams.
 6. The Vulgate Bible. A vellum MS. of the 12th century. Illuminated. Given by Regent George Duffield, of Detroit.
 7. Barclaii de Regno et Regali Potestate adversus libri sex. Paris: 1600. Given by D. Bethune Duffield, Esq., of Detroit.
 8. Les Mémoires de Philippe de Commynes. 1634. Also given by D. Bethune Duffield, Esq.

Dr. A. E. Richards, of Cardiff, Wales, who has long been an untiring benefactor both of the Library and the Museum of Fine Arts, died at Florence, Italy, April 30th, of this year. His gifts to the Library reach 67 volumes, many of which are valuable.

Quite two thirds of the pamphlets received came from Dr. Samuel A. Green, Librarian of the Massachusetts Historical Society. For these I have made such return as our limited stock of duplicate pamphlets would allow.

It would prolong this report beyond reasonable limits to name all the generous friends whose gifts have flowed in upon us during the year. If desired by the Board, for any purpose, a list of all gifts with the names of givers can be furnished at once.

The new Library Building was ready for occupation November 22nd. On November 26th the removal of the books began. The dedicatory exercises on the evening of the 12th drew together a large number of citizens of the State, including His Excellency Gov. Begole, and Ex-Governor Jerome. The chief speaker of the evening was Mr. Justin Winsor, the distinguished librarian of Harvard College. The occasion will long be remembered as a particularly joyful one. On the morning of the 13th the building was opened to readers.

It affords me gratification to say that the books were removed from the old quarters without interference for an hour with their use, and at a cost of less than two-thirds of the sum appropriated for the purpose.

After nine months' use of the Reading Room we find nothing in its construction to criticise, but everything to praise. It is admirable.

The front cases of the Book Room, on all the floors, are not sufficiently lighted on cloudy days, but there is an abundance of light elsewhere in the room.

The high expectations which were had in regard to the Seminary Rooms have been fairly realized. The students who have used them express great satisfaction with the arrangement. The experience of the coming year, however, is needed for a decisive expression in regard to them.

The Administration rooms are commodious and convenient, and when completely furnished will afford unusual facilities for library work.

The pressing duty, after our occupation of the building, was, of course, the classification of the books, and their arrangement upon the shelves. In this work we were continually interrupted by the arrival of new books, which had to be cared for, and the many changes and additions connected with the breaking in of a great building to a variety of uses. By the closest application, however, we succeeded in completing the arrangement of the bound volumes. The pamphlets were not reached, and will furnish occupation for a portion of this year.

Very considerable changes have taken place in the library force.

Miss E. M. Farrand, Assistant Librarian, has resigned, but will remain on half time and half pay, the present year.

Miss Ida A. Morrish has been engaged to perform the other half of Miss Farrand's former work, for the year, and to succeed to the whole of it next year.

Mr. E. N. Smith, general assistant, has been succeeded by Mr. F. N. Scott.

Clarence G. Hyde attendant in charge of the East Seminary Room, has been succeeded by Charles W. Carman, who will be in charge of both rooms.

Dwight G. Ramsdell, desk attendant, has been succeeded by William Thomas.

The loss of Miss Farrand, after fourteen years of service, is a serious one to the Library. I take this opportunity to express my hearty appreciation both of her work and the manner in which it has been performed.

And inclination as well as justice requires that I should mention here the alacrity and cheerfulness with which the unusual labors, incident upon our removal, were performed by all of my assistants.

The resources of the Library for the year 1884-85 are \$1,915.69, which remains of the Legislative appropriation for 1884.

Of this sum there will be required for bills contracted and not paid.....	\$918.00
For subscriptions to periodicals for 1885.....	400.00
For binding and mending.....	375.00
	<hr/>
	\$1,693.00

The amount actually available is, therefore, \$1,915.69 less \$1,693.00=\$222.69.

Mr. MacMillan's gift, the "MacMillan Shakespeare Library," now contains 2,600 volumes, and the Library of the School of Political Science, contributed by "an unknown friend," 2,500 volumes.

The Medical Library has had no appropriation for the purchase of books for three years and is sadly in need, both of new books and new editions of old ones. Provision has been made for keeping up the periodicals of this Department, and for binding them. In this direction an appropriation will be needed for 1885. I estimate

For binding.....	\$150.00
For subscriptions to periodicals.....	175.00
For works issued in parts.....	25.00
	<hr/>
	\$350.00

The Medical Library contains at this time 2,626 volumes and 614 pamphlets.

To prevent any misapprehension I will state that the "Macmillan Shakespeare Library," the Library of the School of Political Science, and the Medical Library are all included in that count of the General Library, which makes it contain 44,880 volumes.

The Law Library has never been counted with the General Library. It contains at present 4,500 volumes.

It was placed in the room made vacant by the removal of the General Library as soon as that could be prepared for its reception. Readers were admitted about the middle of January. There is now an abundance of room, both for the books and for those who wish to consult them; and, in the few visits that I have been able to make, I was led to the conclusion that the collection is under much more efficient management than it has ever been before. The Assistant in charge of it, Mr. Vance, has a care for the books, is full of ingenious devices for their preservation, and devotes to his work an amount of time and painstaking that is quite out of proportion to his compensation.

The sum of \$1,000 has been expended on this library during the year.

Two hundred and thirty-five (235) volumes of Text Books, Reports, Digests, and Statutes have been added.

Paid for binding and mending.....	\$101.75
Subscriptions to Law Journals.....	35.00

Eight Journals are taken, three of which are sent gratuitously.

I would recommend that as soon as possible something be done for the greater security and better accommodation of the Fletcher Library. I will be glad at any time to meet with others interested to consult in regard to this.

In closing this report I take the liberty of again calling the attention of the Board to the statistics that show the use of the Library. I think that these prove unmistakably that there is an equivalent received for the increased expense of maintaining the Library in its new quarters.

Very respectfully submitted,

RAYMOND C. DAVIS.

Librarian.

Ann Arbor, Mich., Sept. 30, 1884.

On motion of Regent Shearer, the report of the Librarian, just read, was accepted and ordered printed in the minutes.

The Finance Committee, through its chairman, Regent Grosvenor, presented and read their Annual Report, which is as follows :

REPORT OF FINANCE COMMITTEE.

The Finance Committee of the Board of Regents herewith present the Treasurer's statement of receipts and expenditures for the fiscal year ending September 30, 1884, and their estimates for the year ending September 30, 1885.

Owing to the early date of the present meeting of the Board, the Treasurer closed his books on the evening of the 27th of September; and consequently no account is taken in his statement of the receipts from students on the closing days of the month. About \$11,000.00 were received on those days, and will be accounted for in the next annual statement.

A careful and thorough examination has been made, under the Committee's direction, of all the accounts, vouchers, tickets,

and stubs remaining in the hands of the Treasurer or the Steward as evidence of the sums that were receivable or payable during the year. In the course of this examination a few clerical errors and discrepancies have been detected, but nothing that affects the accuracy of the balances reported. The Committee are satisfied that on the part both of the Treasurer and the Steward every effort has been made to ensure accuracy in their work, and that both officers have attended to their duties with praiseworthy fidelity and zeal for the best interests of the University.

It will be observed that the balance on hand at the beginning of the year, \$45,327.58, has been reduced to \$27,011.94. This reduction is due in part to the fact that a loan of \$4,000.00, belonging to the transactions of the previous year, remained to be paid on the first of October, 1883, and more largely to the fact that the actual receipts of the last days of the fiscal year have not been included in the report. At the present time there are no loans outstanding.

The above balance, however, it must be said, does not fully represent the condition of the University treasury to-day. In addition to a few outstanding bills for current expenses, the General Pay Roll for the last quarter of the year, amounting to \$28,683.75, and the Special Pay Rolls, amounting to \$1,950.00, are now due. In addition, the sum of \$24,634.00 has been already collected from students in payment of fees and deposits for the year to come.

The financial condition of the University is such that it is only by the most rigid economy in all departments, and by the exercise of excellent judgment on the part of the Auditing Board, that we can hope to keep the expenditures within the receipts. As the University is at present organized, its ordinary receipts are all absorbed in meeting current obligations, and nothing is left for the Board to use in the way of adding to the facilities offered—scarcely enough, indeed, to maintain the present standard. Unless relief is obtained from some quarter, it will be impossible for the University to keep pace with the State's and the country's progress, or long to retain the high position it now holds among the educational institutions of the country. The Committee are satisfied that no reduction in the present scale of expenditure is possible without seriously crippling the efficiency of the University, and that it is the duty of

the Board to do all in its power to secure for the University an immediate and permanent increase of revenue.

All of which is respectfully submitted.

E. O. GROSVENOR.

October 2, 1884.

Estimate of Receipts for the Year ending Sept. 30, 1885,

Balance in Treasury October 1st, 1884.....	\$ 27,011 94
To be received for University Interest.....	38,000 00
“ “ from State 1-20 Mill Tax.....	40,500 00
“ “ “ “ Homœopathic College.....	6,000 00
“ “ “ “ Law of '83.....	2,000 00
“ “ “ “ Professor, '83.....	2,200 00
“ “ “ “ Hospital.....	2,000 00
“ “ “ “ University Hospital.....	3,500 00
“ “ “ “ Dental College.....	6,000 00
Sale of Dental Supplies.....	1,000 00
“ “ Anatomical Material.....	500 00
“ “ Medicines, University Hospital.....	340 00
“ “ “ Homœopathic Hospital.....	200 00
To be received from Students' Fees and Laboratory Charges, etc.,	60,000 00
“ “ “ Interest on Bank Account.....	300 00
Total estimates of Receipts.....	\$190,551 94

Estimate of Expenses.

For Salaries of Professors, Officers, and Employees.....	\$136,000 00
“ Current expenses of Dental College.....	1,500 00
“ “ “ “ Homœopathic Medical College.....	2,000 00
“ “ “ “ University Hospital.....	3,500 00
“ “ “ “ Homœopathic Hospital.....	2,000 00
“ Alterations and Repairs.....	2 000 00
“ Contingent Expenses.....	3,000 00
“ Fuel and Lights.....	12,000 00
“ Grounds.....	500 00
“ Current Expenses of the General Library.....	300 00
“ Medical Library.....	200 00
“ Law Library.....	200 00
“ Postage.....	800 00
“ the Annual Calendar and Regents' Proceedings.....	1,500 00
“ Miscellaneous Printing.....	1,500 00
“ Anatomical Material.....	3,000 00
“ Chemical Laboratory Supplies.....	8,000 00
“ the Current Expenses of the Microscopical Laboratory.....	200 00
“ “ “ “ “ Histological Laboratory.....	200 00
“ “ “ “ “ Botanical Laboratory.....	100 00
“ “ “ “ “ Museum.....	300 00
“ “ “ “ “ Physiological Laboratory.....	200 00
“ “ “ “ “ Physical Laboratory.....	100 00
“ “ “ “ “ General Chemistry.....	300 00

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For the Current Expenses of the Engineering Department-----	400 00
" " " " " Astronomical Observatory-----	200 00
" Advertising Department of Medicine-----	200 00
" " Department of Law-----	200 00
" " School of Pharmacy-----	200 00
" " Literary Department-----	200 00
" Lease of Water Privilege-----	75 00
" Diplomas and filling same-----	600 00
" Commencement Expenses-----	1,200 00
" Current Expenses of Mechanical Laboratory-----	200 00
" Tax on Lots in Springwells-----	75 00
" Furniture-----	100 00
Balance forward September 30, 1885-----	7,505 94

Total estimates of Expenditures----- \$190,551 94

E. O. GROSVENOR,
J. J. VAN RIPPER, } Committee.
CHARLES J. WILLETT, }

To the Finance Committee of the Board of Regents, University of Michigan:

GENTLEMEN: Herewith, I submit statement of the receipts and disbursements of this office, for the fiscal year ending with September 30th, 1884.

Respectfully,

H. SOULE,

Treasurer.

Receipts.

Amount in Treasury October 1, 1883-----	\$ 45,327 76
" received from State Treasurer, Account University Interest-----	\$38,410 43
" received from State Treasurer, State Aid Act 1873-----	40,500 00
" received from State Treasurer, Homœopathic College, Act 1873-----	6,000 00
" received from State Treasurer, Homœopathic College, Act 1883-----	2,000 00
" received from State Treasurer, Dental College, Act 1883-----	7,500 00
" received from State Treasurer, University Hospital, Act 1883-----	4,375 00
" received from State Treasurer, Library Building, Act 1881-----	15,000 00
" received from State Treasurer, Homœopathic Hospital, Act 1883-----	2,500 00
" received from State Treasurer, General Library, Act 1883-----	7,500 00
" received from State Treasurer, Steam Heating, Act 1883-----	4,000 00
" received from State Treasurer, Physical Laboratory, Act 1883-----	1,500 00— 129,285 43

Amount received from First National Bank, Ann Arbor, Interest.....		364 15	
"	received from Homœopathic Hospital Supplies sold.....	160 60	
"	received from University Hospital, Supplies sold.....	357 74	
"	received from Dental Operating Room, Supplies sold.....	2,767 00	
"	received from General Library, Rebate on Books.....	3 00	
"	received from Anatomical Material Sold.....	35 00	
"	" " Miscellaneous Sources.....	1,651 46	
"	" Students Fees, Literary Department,	15,955 00	
"	" " " Law " "	9,255 00	
"	" " " " Medicine and Surgery Department.....	10,295 00	
"	" " " " Pharmacy Department	2,425 00	
"	" " " " Chemical Laboratory,	8,084 07	
"	" " " " Practical Anatomy.....	3,315 00	
"	" " " " Homœopathic Medical College.....	2,030 00	
"	" " " " Dental College.....	2,140 00	
"	" " " " General Chemistry.....	215 00	
"	" " " " Histology.....	698 00	
"	" " " " Microscopy.....	255 00	
"	" " " " Diplomas.....	4,148 00	
"	" " " " Mechanical.....	115 00	
"	" " " " General Library.....	74 75	59,004 82
Amount of Fees received.....		\$59,004 82	
Deduct Fees Refunded.....		2,376 40	
Net.....		56,628 42	
Total received.....			\$238,957 58

Disbursements.

Paid Salaries of Officers, Professors and Employees from General Fund.....		\$113,399 71	
"	Homœopathic College Fund.....	6 537 00	
"	" " " " Additional Professor	2,200 00	
"	" " " Hospital Fund.....	366 00	
"	Assistant in Mechanics ".....	1,000 00	
"	Dental College Fund.....	5,991 67	
"	University Hospital Fund.....	1,650 00	\$131,164 38
Paid for General Expenses, General Fund.....		36,071 76	
"	" Homœopathic College, Special Fund.....	411 50	
"	" Dental College, Special Fund.....	2,667 58	
"	" University Hospital, Special Fund.....	1,910 74	
"	" Homœopathic Hospital, Special Fund.....	2,437 69	
"	" Physiological Laboratory ".....	1,195 43	
"	" Mechanical Laboratory ".....	1,521 07	
"	" Physical Laboratory, Special Fund.....	1,606 45	

OCTOBER MEETING, 1884.

515

Paid for Library Building, Special Fund.....	15,732 22	
" " General Library " "	10,332 58	
" " Eye and Ear Ward Special Ward.....	14 78	
" " Steam Heating, Special Fund.....	6,879 46	80,781 26
		<hr/>
Total Expended.....		\$211,945 64
Balance in Treasury, Sept. 30th, 1884.....		27,011 94
		<hr/>
		\$238,957 58

Receipts to the General Fund.

Balance in Treasury, Oct. 1, 1883.....		\$ 26,050 69
Received State Aid.....	40,500 00	
" " Interest.....	38,410 43	
" " Interest on Deposit from First National Bank, Ann Arbor.....	364 15	
" Sale of Anatomical Material.....	35 00	
" Miscellaneous sources.....	1,651 46	
" Students Fees, Net.....	56,628 42	137,589 46
		<hr/>
		\$163,640 15

Disbursements from the General Fund.

Paid Salaries to Professors, Officers, and Employees.....	\$113,399 71	
" Vouchers acct. Contingent	\$3,876 58	
" " " Alterations and Repairs.....	2,005 09	
" " " Fuel and Lights.....	5,420 11	
" " " General Library.....	326 85	
" " " Medical Library.....	241 90	
" " " Law Library.....	960 63	
" " " Grounds.....	727 30	
" " " Postage.....	542 91	
" " " Insurance.....	1,367 25	
" " " Advertising and Printing.....	1,865 68	
" " " Museum.....	618 46	
" " " Chemical Laboratory.....	5,322 69	
" " " Engineering.....	217 04	
" " " Astronomical Observatory.....	267 06	
" " " Furniture and Apparatus.....	26 50	
" " " Construction.....	142 25	
" " " Anatomical.....	2,878 81	
" " " Physical Laboratory.....	22 01	
" " " Physiological Laboratory.....	142 15	
" " " Botanical Laboratory.....	25 21	
" " " Histological Laboratory.....	401 59	
" " " Microscopical Laboratory.....	130 12	
" " " General Chemistry.....	171 20	
" " " Mechanical.....	645 64	
" " " Advertising Medical.....	141 25	
" " " " Pharmacy.....	75 50	
" " " " Law.....	15 00	
" " " Calendar.....	824 87	

Paid Vouchers for Homœopathic College.....	90 00	
“ “ “ Loan paid Oct. 1st, 1883.....	4,000 00	
“ “ “ Correction on Vouchers of 1883.....	71	33,695 36
“ Balance in Treasury Sept. 30, 1884.....		16,545 08
		<hr/> \$163,640 15

Special Funds.**HOMŒOPATHIC MEDICAL COLLEGE.****RECEIPTS.**

Balance in Treasury Oct. 1st, 1883.....	\$1,156 82	
Received from State Treasurer.....	8,000 00	\$9,156 82

DISBURSEMENTS.

Paid Salaries of Professors and Employees.....	6,557 00	
“ Vouchers for Current Expenses.....	411 50	
“ Balance in Treasury Sept. 30, 1884.....	2,188 32	9,156 82

ADDITIONAL PROFESSOR HOMŒOPATHIC COLLEGE.

Balance in Treasury Oct. 1st, 1883.....	2,200 00	2,200 00
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DISBURSEMENTS.

Paid Salary of Professor.....	2,200 00	2,200 00
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DENTAL COLLEGE.**RECEIPTS.**

From State Treasurer.....	7,500 00	
“ Sale of Material and Appliances.....	2,767 80	10,267 80

DISBURSEMENTS.

Balance overdrawn Oct. 1st, 1883.....	320 83	
Paid Salaries of Professors and Employees.....	5,991 67	
“ Vouchers for Current Expenses.....	2,667 58	
Balance in Treasury Sept. 30, 1884.....	1,287 72	10,267 80

UNIVERSITY HOSPITAL.**RECEIPTS.**

From State Treasurer.....	4,375 00	
“ Sale of Material and Appliances.....	357 74	4,732 74

DISBURSEMENTS.

Balance overdrawn Oct. 1st, 1883.....	571 98	
Paid Salaries of Professors and Employees.....	1,650 00	
“ Vouchers for Current Expenses.....	1,910 74	
Balance in Treasury Sept. 30, 1884.....	600 62	4,732 74

HOMŒOPATHIC HOSPITAL.**RECEIPTS.**

Balance in Treasury Oct. 1, 1883.....	1,145 25	
“ from State Treasurer.....	2,500 00	
“ “ Sale of Medicines and Appliances.....	160 60	3805 85

DISBURSEMENTS.

Paid Salaries of Professors and Employees.....	366 00	
“ Vouchers Current Expenses.....	2,437 69	
“ Balance in Treasury Sept. 30, 1884.....	1,002 16	3,805 85

LIBRARY BUILDING.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....	732 22	
“ from State Treasurer.....	15,000 00	15,732 22

DISBURSEMENTS.

Paid Vouchers for Construction.....		15,732 22
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EYE AND EAR WARD.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....		17 55
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DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	14 78	
Balance in Treasury Sept. 30th, 1884.....	2 77	17 55

GENERAL LIBRARY..

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....	6,210 36	
From State Treasurer.....	7,500 00	
“ Rebate on Books.....	3 00	13,713 36

DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	10,332 58	
Balance in Treasury Sept. 30th, 1883.....	3,380 78	13,713 36

MECHANICAL LABORATORY.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....	1,409 78	
Amount Overdrawn Sept. 30th, 1884.....	111 29	1,521 07

DISBURSEMENTS.

Paid Vouchers for Current Expenses.....		1,521 07
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ASSISTANT IN MECHANICAL LABORATORY.

RECEIPTS

Balance in Treasury Oct. 1, 1883.....		1,000 00
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DISBURSEMENTS.

Paid Salaries.....		1,000 00
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PHYSIOLOGICAL LABORATORY.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....		1,927 06
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DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	1,195 43	
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Balance in Treasury Sept. 30th, 1884.....	731 63	1,927 06
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PHYSICAL LABORATORY.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....	1,491 20	
From State Treasurer.....	1,500 00	2,991 20

DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	1,606 45	
Balance in Treasury Sept. 30th, 1884.....	1,384 75	2,991 20

STEAM HEATING.

RECEIPTS.

Balance in Treasury Oct. 1, 1883.....		2,879 46
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DISBURSEMENTS.

Paid Vouchers for Current Expenses.....		2,879 46
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Recapitulation. Special Funds.

BALANCES IN TREASURY SEPT. 30, 1884.

Homœopathic Medical College.....	\$ 2 188 32
University Hospital.....	600 02
Homœopathic Hospital.....	1,002 16
Eye and Ear Ward.....	2 77
General Library.....	3,380 78
Physical Laboratory.....	1,384 75
Physiological Laboratory.....	731 63
Dental College.....	1,287 72
	<hr/>
	\$10,578 15

LESS OVERDRAWN BALANCES.

Mechanical Laboratory.....	111 29
	<hr/>

Balance in Special Funds.....	\$ 10,466 85
“ “ General Fund.....	16,545 08
	<hr/>

Amount in Treasury, Sept. 30th, 1884.....	\$ 27,011 94
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On motion of Regent Shearer the report of the Finance Committee was accepted and ordered printed in the minutes.

Regent Grosvenor, Chairman of the Finance Committee, submitted the following report :

The Committee on Finance, to whom was referred the claim of W. A. Tolchard, late Treasurer, for services rendered to the present Treasurer after February 1, 1884, the day he retired from said office as Treasurer, report that it appears from a letter now in the hands of your committee, from Regent S. S. Walker,

dated January 29, 1884, then Chairman of Finance Committee, addressed to Mr. Tolchard, that he requested him to devote what time he conveniently could in assisting and instructing the incoming Treasurer, and for such service he would be entitled to compensation for the same, at the rate of his former salary, for the time employed. Your Committee learn from Treasurer Soule that all the service rendered to him or his department by Mr. Tolchard, was from February 1 to 29, 1884, and mainly before the 15th of said month, and that no aid or instruction has been given to him or his department by Mr. Tolchard, since February 29, 1884.

In view of the facts as stated, your Committee recommend that W. A. Tolchard be allowed and paid for two-thirds of a month service at the rate of \$1,400 per year (\$77.78) in full of his claim, referred to.

Respectfully submitted,

E. O. GROSVENOR.

C. J. WILLETT.

On motion of Regent Blair, the above report was accepted and adopted.

Regent Blair submitted the following resolutions :

Resolved, That the great service which the late Dr. A. E. Richards has rendered to historical investigation and to art, in collecting and presenting to various institutions of learning, rare and valuable coins and medals, and especially in making for the University of Michigan the large numismatic collection to which the University has justly given his name, entitles him to an honorable place among the benefactors who have generously contributed to the means and material of education.

Resolved, That the surviving relatives of the honored deceased be assured of the high estimate placed by the Board of Regents upon his good work, of their appreciation of his disinterested and generous motives, and of their profound regret that he has been removed by death from the chosen field of labor in which he was doing such eminent service to the cause of education and culture.

On motion of Regent Grosvenor the above resolutions were adopted unanimously.

Regent Blair submitted the following resolution :

Resolved, That five hundred dollars (\$500) be appropriated from the General Fund for the Law Library, to pay present indebtedness and to purchase additional books.

The resolution of Regent Blair was adopted by the following vote:

Ayes.—Regents Shearer, Grosvenor, Blair, Clark and Willett.

Nays.—None.

Professor A. B. Prescott, Dean of the School of Pharmacy, presented the following recommendation:

UNIVERSITY OF MICHIGAN,
SCHOOL OF PHARMACY, October 1, 1884. }

To the Honorable, the Board of Regents.

GENTLEMEN,—I beg leave to report that Mr. Adolph Gustavus Hoffman has been recommended to you by the Faculty of this Department for the degree of Pharmaceutical Chemist.

By direction of the Faculty,

ALBERT B. PRESCOTT, Dean.

On motion of Regent Blair the Degree of Pharmaceutical Chemist was conferred on Adolph Gustavus Hoffman, in accordance with the recommendation of the Faculty of the School of Pharmacy.

On motion of Regent Grosvenor the Executive Committee were authorized to employ such assistance in the Homœopathic Medical College as may be necessary, on account of the illness of Doctors Wilson and Obetz.

On motion of Regent Grosvenor the bill of Robert Clark & Co., of Cincinnati, for \$128.20 for books furnished the Dental Department, was ordered paid and charged to the special legislative appropriation for the Dental College.

On motion of Regent Clark the Board adjourned to to-morrow morning, at 8:30.

MORNING SESSION.

The Board assembled at 8:30, A. M., pursuant to adjournment.

Dr. George A. Hendricks presented and read a communication from Dr. A. B. Palmer, relative to increasing the salaries of Assistants in the Medical Department, which on motion of Regent Blair was referred to the Medical Committee and the Chairman of the Finance Committee.

Regent Clark moved that the Professor of Physics be allowed an Assistant, at a salary not exceeding two hundred dollars (\$200). Carried by the following vote:

Ayes.—Regents Duffield, Shearer, Grosvenor, Blair, Clark and Willett.

Nays.—None.

Regent Shearer presented the following resolution of thanks, which was adopted by the Board unanimously:

Resolved, That the thanks of the Board of Regents be tendered to James Jenks, of Detroit, for a large and very fine injector of his manufacture, presented to the Department of Mechanical Engineering.

Regent Blair moved that the title of Professor H. B. Hutchins be that of Jay Professor of Law. The motion was carried by the full vote of the Board.

The request of Michael Condon for an increase of salary was presented to the Board by the Secretary, and on motion of Regent Blair was referred to the Medical Committee.

Regent Duffield submitted the following resolution which was adopted unanimously:

Resolved, That the thanks of the Board of Regents be cordially tendered to Henry Phillips, Jr., Ph. D., Curator of the American Philosophical Society, of Philadelphia, for the donation to the University of a valuable collection of ancient coins and of

American historical medals, to be placed in the Richards collection of coins and medals.

Regent Shearer moved that the Executive Committee be authorized to employ an assistant to Dr. Dorrance, if necessary, at a salary not exceeding one hundred and fifty dollars (\$150). The motion was carried by the following vote :

Ayes —Regents Duffield, Shearer, Grosvenor, Blair, Clark and Willett.

Nays.—None.

On motion of Regent Blair the Board adjourned to Tuesday evening, December 23d, at 7 o'clock.

JAMES H. WADE,
Secretary.

ADJOURNED MEETING.

DECEMBER, 1884.

UNIVERSITY OF MICHIGAN;
ANN ARBOR, December 23, 1884. }

The Board of Regents assembled in the room of the President at 7 o'clock P. M., pursuant to adjournment.

Present, the President, Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Absent, Regents Shearer and Clark.

On motion of Regent Joy, the minutes of the last meeting were approved as printed.

Several communications which had reached the President were placed in the hands of appropriate committees of the Board.

The President presented and read the following report of the Executive Committee :

The Executive Committee beg leave to report as follows upon certain appointments in the Homœopathic Medical Faculty, which they found it necessary to make after the last meeting of the Board of Regents :

When the term opened Professor Wilson and Professor Obetz were both disabled by illness, and Professor Cowperthwaite was prevented by his engagements in Iowa from spending more than a portion of his time here. We therefore invited Dr. O. R. Long, of Iowa, to fill temporarily Professor Wilson's chair. After lecturing acceptably for about three weeks he found that he could not come as frequently as was desirable. He was therefore released from his engagement and Dr. Brown, of Jackson, was appointed in his stead. It was arranged that Dr. Wilson should not draw his salary, but that it should be paid to the occupant of

his chair. In accordance with an understanding with Dr. Cowperthwaite at the time of his appointment, that an Assistant to his chair should be appointed, and also to meet pressing wants of the Department, on the 27th of October A. Sidney Dolan was appointed Instructor in Pharmacology and Assistant to the chairs of Practice and Materia Medica and Pharmacology, for the remainder of this college year at a salary of \$400.

JAMES B. ANGELL.

AUSTIN BLAIR.

GEORGE DUFFIELD.

E. O. GROSVENOR.

At the close of the reading of the report of the Executive Committee, Regent Von Riper moved that the report be accepted and adopted. The motion was carried by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Nays—None.

Regent Duffield presented and read the annual report of the Board to the Superintendent of Public Instruction, which, on motion of Regent Van Riper, was adopted unanimously.

On motion of Regent Blair, the Board went into executive session.

The President stated that Prof. Olney, owing to his continued illness, was not yet able to resume his work in the University, but with the aid of an Assistant at a salary of \$900 per year, and the redistribution of the work, the full work of the department was being carried forward. Whereupon Regent Grosvenor moved that the Auditing Board be instructed to pay Professor Olney up to April next at the rate of thirteen hundred dollars (\$1,300) per annum, being his full salary less the amount paid the Assistant. A call vote taken on the motion of Regent Grosvenor resulted as follows:

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Nays—None.

Regent Duffield presented and read the following communication from the Professor of General Chemistry.

UNIVERSITY OF MICHIGAN, }
ANN ARBOR, December 22, 1884. }

To the Honorable Board of Regents:

GENTLEMEN:—Since your last meeting the Secretary of the University has sold, with my approval, a Photometer which belonged to the Department of General Chemistry and for which the University had no further use. As you will be compelled this year to reduce the customary appropriation for my department, I now ask that the money received from the sale of the Photometer may be passed to the credit of the Department of General Chemistry.

Very Respectfully,
JOHN W. LANGLEY,
Prof. General Chemistry.

On motion the above request of Prof. Langley was granted by the full vote of the Board as follows:

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Nays—None.

Librarian Davis stated that the following amounts would be required for the Medical Library for the college year ending June 30th, 1885: Bills contracted and unpaid, \$70.60; periodicals for 1885, \$192.40; for binding and works issued in parts, \$75.00. On motion of Regent Duffield the sum of three hundred and thirty eight dollars (\$338.00) was appropriated for the Medical Library by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Nays—None.

The following communication from the Dean of the Dental College was read by Regent Van Riper:

UNIVERSITY OF MICHIGAN, DENTAL COLLEGE. }
ANN ARBOR, December 16, 1884. }

To the Board of Regents.

The work in the Dental College is much embarrassed in the operative department especially. There will be im-

mediately after the holiday vacation from thirty-five to thirty-eight students requiring chairs, and we have but twenty-nine. It is important that we have five or six more chairs. These will cost about \$30.00 each, so that an appropriation of \$150.00 seems desirable for this emergency. If circumstances will warrant this, it will greatly facilitate our work.

Respectfully submitted,

J. TART,
Dean.

Regent Van Riper submitted the following resolution :

Resolved, That the sum of \$150.00 be appropriated for the purchase of five dental chairs for the use of the Dental Department; said amount to be appropriated out of the Dental fund.

The above resolution was adopted by the following vote.

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, Joy and Willett.

Nays—None.

A communication from Professor Harrington, relative to the purchase of a set of Trouvelot's Astronomical Drawings for the use of the Observatory, was received and placed on file.

The following communication from Professor M. E. Cooley was presented and read by Regent Duffield:

UNIVERSITY OF MICHIGAN, }
December 23, 1884. }

Gentlemen of the Honorable Board of Regents:

I have the honor to submit herewith for your consideration the names of manufacturing firms that have, since the date of your last meeting, made valuable contributions to the University for purposes of instruction in the Department of Mechanical Engineering. At the suggestion of the President, I have also prepared a list of the contributions received up to the opening of the present college year, which, together with contributions promised, is appended.

From the Crescent Steel Works, Pittsburgh, Pa., sample bars of tool-steel, and of "cold-hammered" round steel; value-----\$ 30 00

From Wm. Sellers and Company, (1600 Hamilton st.) Philadelphia, Pa., a No. 6 Locomotive Injector, pattern of 1876, in part section; value.....	70 00
From L. Schutte and Company, (12th and Thompson St.) Philadelphia, Pa., a No. 4 Korting Universal Double Tube Injector, in section, highly polished, and nickel-plated; value.....	62 00
From the Nathan Manufacturing Company, (92 and 94 Liberty st.) New York, a No. 4 Locomotive Injector, monitor pattern, in section, highly polished, and gold-plated; value.....	60 00
From the Seibert Cylinder Oil-Cup Company, (53 Oliver st.) Boston, Mass., a No. 2 ($\frac{1}{2}$ pint), nickel-plated, Cylinder Oil-Cup; value,	27 50
From the Detroit Lubricator Company, Detroit, Mich., a $\frac{1}{2}$ pint, nickel-plated, Cylinder Oil-Cup; value.....	25 00
From the Gardner Governor Company, Quincy, Ill., a $\frac{1}{2}$ inch Spring Governor, with Automatic Safety Stop, and Sawyer's Lever; value.....	27 50
From the Ross Valve Company, Troy, N.Y., a $\frac{3}{4}$ inch Reducing Pressure Valve, for water, in part section; value.....	7 00
From Henry R. Worthington, New York, a 6 inch x 4 inch x 6 inch Steam Pump (with water-works finish); value.....	220 00
A 1 inch Water Meter; value.....	33 00
Total	\$ 562 00

The following contributions were received prior to October 1st, 1884, and have been acknowledged by you :

From the Bureau of Steam Engineering, Navy Department, Washington, D. C., drawings and specifications for the Double Turreted Monitor, "Miantonomoh" and class, and the engines and boilers of the steel cruisers, "Chicago" and "Dolphin"; value not stated.	
From B. F. Sturtevant, Boston, Mass., a No. 1 Steel Pressure Blower, with Counter-Shaft and Blast-Gate complete; value.....	\$ 53 00
From the H. B. Smith Machine Company, (925 Market st.) Philadelphia, Pa., a Magic Water Gauge Reflector; value.....	1 00
From Philip S. Justice and Company, (14 N. 5th st.) Philadelphia, Pa., samples of Weldless, Solid Drawn Steel Tubes; value not stated.	
From the Akron Iron Company, Akron, Ohio, samples of Hot Polished Shafting; value not stated.	
From the American Steam Gauge Company, (36 Chardon st.) Boston, Mass., a Thompson's Improved Steam Engine Indicator, nickel-plated, with three extra springs; value.....	104 50
A Pantograph; value	10 00
An Amsler's Polar Planimeter; value.....	15 00
Two No. 2 Test Gauges, nickel-plated; value.....	48 50
From the Harrison Safety Boiler Works, Germantown Junction, Philadelphia, Pa., several sections of the Harrison Safety Boiler; value.....	25 00
From the Hancock Inspirator Company, Boston, Mass., a No. 25 Hancock Inspirator, in part section; value.....	60 00

From James Jenks and Company, Detroit, Mich., a No. 15 Duplex Injector, in part section; value.....	75 00
From the Deane Steam Pump Company, Holyoke, Mass., a No. 2 Steam Pump, in section; value.....	140 00
From the Valley Machine Company, Easthampton, Mass., a No. 0 Double-Acting Bucket-Plunger Steam Pump, in part section; value.....	85 00
From the Geo. F. Blake Manufacturing Company, (44 Washington st.) Boston, Mass., a No. 1½ Steam Pump; value.....	125 00
From the Union Water Meter Company, Worcester, Mass., a ¾ inch Rotary Piston Water Meter; value.....	14 00
From the Westinghouse Air Brake Company, Pittsburgh, Pa., an Air Brake outfit for locomotive and tender complete, except Driving-Wheel Brakes, with two extra Triple Valves, one in section to show parts in operation, and with Pump Regulator; value,	500 00
From the Pratt and Whitney Company, Hartford, Conn., models of Milled Gearing, of 2 inch pitch, highly polished; value.....	30 00
From Mr. John Walker, of the Walker Manufacturing Company, Cleveland, O., a Gear Scale, bound in boards; value.....	2 00
From the John T. Noye Manufacturing Company, Buffalo, N. Y., a Fulton Steel Pulley, 16 in. diam., 6½ in. face; value.....	4 00
Total.....	\$1,232 00

Other smaller gifts have been received, including photographs and lithographs of standard tools and machines.

The following are promised :

- From the Guild and Garrison Steam Pump Works, Brooklyn, (E. D.) N. Y. a Steam Pump in section.
- From the Pulsometer Steam Pump Company, (88 John st.) New York; a Pulsometer Steam Pump.
- From the Blevney Manufacturing Company, (56 Academy st.) Newark, N. J.; a Friction Clutch Pulley, mounted to show operation.
- From James Hunter and Son, North Adams, Mass.; a Friction Clutch, mounted to show operation.

Respectfully submitted,

M. E. COOLEY,

Prof. Mech. Engineering.

On motion of Regent Duffield, the President was requested to transmit to the Crescent Steel Works, of Pittsburgh, Pa., William Sellers & Co., of Philadelphia, Pa., L. Schutte & Co., of Philadelphia, Pa., The Nathan Manufacturing Co., of New York, The Seibert Oil-Cup Co., of Boston, The Detroit Lubricator Co., of Detroit, The Gardner Governor Co., of Quincy, Ill., The Ross Valve Co., of Troy, N. Y., Henry R. Worthington, of New York, and

the Bureau of Steam Engineering, Navy Department, the thanks of the Board for their valuable contributions to the Department of Mechanical Engineering in the University of Michigan.

On motion of Regent Blair, the Board adjourned, subject to the call of the President, at the time of the visit of the Legislative Committee to the University.

JAMES H. WADE,
SECRETARY.



ADJOURNED MEETING.

FEBRUARY, 1885.

UNIVERSITY OF MICHIGAN,
Wednesday, February 4th, 1885. }

The Board of Regents assembled in the room of the President at 2 o'clock P. M., pursuant to adjournment.

Present—The President, Regents Duffield, Van Riper, Grosvenor, Clark, and Willett.

Absent—Regents Shearer, Joy, and Blair.

On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

The following communication from the Secretary of the Faculty of the Department of Literature, Science, and the Arts, was presented and read by Regent Duffield:

DEPARTMENT OF LITERATURE,
SCIENCE, AND THE ARTS. }

To the Honorable, the Board of Regents:

GENTLEMEN,—I have the honor to report to your Honorable Body that the Faculty, at its last meeting, recommended to you Mr. Edward Adolphus Rosenthal for the degree of Master of Arts.

Respectfully submitted.

P. R. DE PONT,
Secretary of the Faculty.

ANN ARBOR, February 3d, 1885.

On motion of Regent Duffield, the degree of Master of Arts was conferred on Edward Adolphus Rosenthal.

Regent Duffield presented and read the following memorial from the Faculty of the Department of Literature, Science, and the Arts:

To the Honorable Board of Regents.

Gentlemen:—I beg leave to present to your Honorable Body the following memorial which was adopted by the Faculty at the meeting held on November 3d, 1884.

To the Honorable, the Board of Regents of the University of Michigan :

The State Normal School grants diplomas on the condition of having completed a course of academic instruction similar to that which is offered by our High Schools, and a course of professional instruction in the theory and the art of teaching, and this diploma entitles its holder to a life license to teach.

This University grants Teachers' Diplomas to students on the condition of having received the Bachelor's degree, of having pursued at least one Teacher's Course, and one of the Courses in the Science and the Art of Teaching; but this Diploma has no legal value whatever.

In view of these facts we respectfully ask the Honorable the Board of Regents to take some measures whereby the State Legislature at its approaching session may be induced to make the Teachers' Diplomas issued by the University the legal equivalents of the Diplomas granted by the State Normal School.

Respectfully submitted,

P. R. DE PONT,

Secretary of the Faculty of Literature, Science, and the Art.

Regent Grosvenor submitted the following resolution :

Resolved, That the subject matter contained in the memorial of the Faculty of the Department of Literature, Science and the Arts meets the approval of this Board, and that the same be incorporated into, and become a part of, the memorial of the Board of Regents to the Legislature.

The resolution of Regent Grosvenor was adopted unanimously.

The Legislative Committees (composed of Senators Shoemaker, Monroe and Smith, and Representatives Parkhurst, North, Campbell, Ford and Collins,) being present, Regent Grosvenor moved, that the Board do now adjourn to to-morrow morning at 9 o'clock, to enable the Committee and the Board to inspect the buildings and grounds. The motion was carried, and the Board adjourned.

MORNING SESSION.

Thursday, February 5th, 1885.

The Board reassembled at 9 o'clock A. M., and held a protracted conference with the Legislative Committees, after which, on motion of Regent Van Riper, a recess was taken to 2 o'clock P. M.

AFTERNOON SESSION.

The Board reconvened at 2 o'clock P. M.

Regent Van Riper submitted the following resolution :

Resolved, That Dr. C. A. Wilson be appointed Assistant to the Chair of Surgery in the Homœopathic Medical College, at a salary of one hundred dollars (\$100) per annum.

The resolution of Regent Van Riper was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Clark, and Willett.

Nays—None.

Regent Van Riper moved that the Auditing Board be instructed to pay Dr. Newton Baldwin the sum of \$25, and Dr. H. C. Allen the sum of \$50, out of the Homœopathic College fund, in full of all money paid by them to Dr. H. C. Kasselmann and Dr. T. M. Gibson, for assistance rendered their respective Chairs during the College year of 1883-84.

On motion of Regent Van Riper a committee of four, consisting of the President, Regents Grosvenor, Clark and Willett, was appointed to look after the interests of the University before the Legislature.

Regent Van Riper moved that the salary of W. W. Ralston, nurse in the University hospital, be increased from two hundred to three hundred dollars per year.

The motion was carried by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Clark and Willett.

Nays—None.

On motion of Regent Grosvenor the Board adjourned.

JAMES H. WADE,
Secretary.

MARCH MEETING.

1885.

UNIVERSITY OF MICHIGAN,
Tuesday, March 24, 1885. }

The Board of Regents assembled in the room of the President at 7:30 o'clock P. M.

Present—The President, Regents Duffield, Van Riper, Blair, and Clark.

Absent—Regents Grosvenor, Shearer, Joy, and Willett.

There being no quorum, the Board adjourned to 10 o'clock to-morrow morning.

MORNING SESSION.

The Board reassembled at 10 o'clock A. M. The Secretary called the roll, and the following Regents were reported present:

Regents Duffield, Van Riper, Grosvenor, Blair, and Clark.

There being a quorum of the Board present, the meeting was called to order, and opened with devotional exercises by the President.

On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

The following communication from the Dean of the Faculty of the Dental College was presented and read by Regent Van Riper:

To the Honorable, the Board of Regents.

GENTLEMEN,—The following named persons having complied with all the requirements of this Department, are recommended by the Faculty of the Dental College, subject to your approval, for the degree of Doctor of Dental Surgery.

Respectfully,

J. TAFT, Dean.

Lafayette Lyman Barber,
Louis Prentiss Bethel,
John Lincoln Gish,
Fred Seward Hadley,
George Bruner Haught,
Daniel Stone Husted,
Charles William Jones,

Leo Kratzsch,
Herman Christian Kuebler,
Oscar Bostwick Lundy,
Edward Fitz Randolph,
John Duncan Robertson,
Willoughby Burchard Smith,
Will Henry Whitslar.

Regent Van Riper, chairman of the Committee on Dental College, submitted the following resolution, which was adopted :

Resolved, That the degree of Doctor of Dental Surgery be conferred upon the above named persons, in accordance with the recommendation of the Faculty of the Dental College.

Regent Van Riper moved that the salary of John Butler be increased from \$500 to \$550 ; but, on motion of Regent Blair, action on the motion of Regent Van Riper was deferred until the next meeting of the Board.

Professor Steere being present, addressed the Board in regard to the mounting of certain zoölogical specimens and other needs of the Museum. At the suggestion of Regent Grosvenor, Professor Steere was requested to submit his recommendations in writing, for consideration at the next meeting of the Board.

Regent Blair presented and read the following communication :

UNIVERSITY OF MICHIGAN,
DEPARTMENT OF LAW,
Ann Arbor, March 24, 1885. }

To the Honorable, the Board of Regents :

GENTLEMEN,—The Law Library, with the additions so munificently made to it by Mr. Christian H. Buhl, of Detroit, now contains the reports of all the States in the Union with the exception of the States of Arkansas, Nebraska, North Carolina,

South Carolina, and Texas. The reports of the State of Kentucky, however, are quite incomplete. We also have duplicate sets of some of the State reports, as well as of some of the English reports. These reports, or such of them as may be needed for that purpose, can be advantageously sold or exchanged for reports which we do not now possess, provided the Board will authorize such exchange to be made under the direction of the Faculty.

Attention is also called to the fact that the Board, on October 2d, 1884, appropriated \$500 for the purchase of additional books for the Law Library. The appropriation would have been sufficient to enable us to pay for the current volumes of reports up to October 1st, 1885. But we are informed that the amount expended in moving the Buhl Library from Detroit to Ann Arbor and placing it on the shelves in the Library was \$137.49, and that this sum has been paid out of the fund appropriated last October for the purchase of books, leaving only about thirty dollars now to the credit of that fund. This sum will be inadequate to meet the cost of reports to be received between this and October 1st, 1885. If the Board will make an appropriation of \$137.49, that being the amount taken from the book fund to pay for moving the Buhl Library, we shall be able to meet all expenses up to October, 1885.

Respectfully submitted,

HENRY WADE ROGERS,

Secretary of the Law Faculty.

Regent Blair, chairman of the Law Committee, submitted the following resolutions :

Resolved, That the Law Faculty of the University be and they are hereby authorized to sell or exchange duplicate sets of any reports that may be in the Law Library, for the purpose of procuring and putting into the Library other reports or books, as they may think most beneficial to the Library.

Resolved, also, That for the reason that the appropriation of \$500 made October 2d, 1884, for the purchase of additional books for the Law Library has been in part used to pay the expenses of removing the Buhl Library from Detroit to Ann Arbor, the Law Faculty be and they are hereby authorized to overdraw their account under said appropriation to the amount of \$137.49, to be made good by the Board hereafter.

The above resolutions were adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair, and Clark.

Nays—None.

Regent Duffield presented and read the following communication from R. C. Davis, Librarian :

UNIVERSITY OF MICHIGAN, GENERAL LIBRARY, }
Ann Arbor, March 12, 1885.

President Angell :

DEAR SIR,—The enclosed letter from Mr. Phillips will explain itself.

Of the publications of the American Philosophical Society the Library possessed Series 1 of the *Transactions*, complete, viz. : Vols. 1-6, inclusive; and of Series 2, Vols. 1-5, inclusive.

The Society presents us now with the *Transactions*, Series 2, Vols. 6-15, the last completed volume, and the *Proceedings*, Vols. 1-21, the last completed volume. It also assures us that its publications will be mailed to the Library in the future, as fast as issued.

I deem it my duty to communicate to you, for the information of the Board of Regents, the receipt of this important gift.

Very respectfully,

R. C. DAVIS, Librarian.

The following is an extract from the letter of Henry Phillips, Jr., to Librarian Davis :

AMERICAN PHILOSOPHICAL SOCIETY, }
PHILADELPHIA, 104 South Fifth Street, }
February 11th, 1885.

Mr. R. C. DAVIS, Librarian of the University of Michigan, Ann Arbor, Mich. :

DEAR SIR,—I have sent to-day, for the University, as a present from the A. P. S., a complete set of our *Proceedings* and *Transactions*, except those you already own. I think this is the last set we can ever make up. We have been very chary of giving any numbers back of No. 96 for many years. We have placed the University on our list to receive all future publications regularly.

Very truly yours,

HENRY PHILLIPS, JR.,

Secretary and Librarian, A. P. S.

Regent Duffield, chairman of the Library Committee, submitted the following report and recommendation, which were adopted by the unanimous vote of the Board :

The Library Committee report with no ordinary pleasure the donation of a set of the *Proceedings* and *Transactions* of the American Philosophical Society, Philadelphia, through Mr. Henry Phillips, Jr., Secretary and Librarian. Also that the said Society have placed the University on their list to receive all future publications at the time of their issue.

Your Committee recommend that appropriate thanks for these donations be tendered by the Board of Regents, through President Angell.

On motion of Regent Grosvenor, the Auditing Board were authorized to compile and print 5,000 copies, in pamphlet form, of the Statement of the Organization and History of the University, prepared for the New Orleans exhibit, to be circulated as an advertisement of the University.

On motion of Regent Grosvenor, a recess was taken until 1:30 o'clock P. M.

AFTERNOON SESSION.

Regent Blair, chairman of the Law Committee, submitted the following resolutions, which were adopted unanimously :

Resolved, That the thanks of the Board of Regents are hereby tendered to Mr. C. H. Buhl, of Detroit, for his generous gift of a law library of five thousand volumes to the University ; and

Resolved, further, That for the purpose of more perfectly preserving the record of the transactions connected with this act, the correspondence between Mr. Buhl, the President of the University, the Law Faculty, and the students of the Law Department, be published at length in the Journal of this Board.

The following is the correspondence referred to in the resolution of Regent Blair :

Mr. Buhl's Offer of the Library.

DETROIT, February 9th, 1885.

HON. JAMES B. ANGELL, President of the University of Michigan :

DEAR SIR,—I learn from Mr. Jas. F. Joy that the Law Library of the University is somewhat incomplete, and that additions thereto, especially in the way of Reports, are desirable and necessary.

I have a Law Library of about five thousand volumes, principally Reports, which I propose to give to the University if it will be of use. Should it be thought best to accept these books, delivery can be made at once.

Very respectfully,

C. H. BUHL.

President Angell's Reply.

ANN ARBOR, February 10, 1885.

C. H. BUHL, Esq., Detroit :

DEAR SIR,—I am in receipt of your letter of yesterday, in which you announce your readiness to present to the University your Law Library of five thousand volumes, if it will be of use to us.

Allow me to thank you most heartily for your generous offer of by far the largest gift which our Law Library has ever received. We accept it with the sincerest gratitude.

To show you that it will be of great use to us, I may say that it will fill many sad gaps in our Law Library. How serious these gaps are I almost hesitate to say. But the truth is that although we have law students from all over the Union, there are thirty States and Territories which are absolutely unrepresented by a single volume of Reports. The Canadian Reports and the Irish Reports are wanting, and our English Reports and U. S. Circuit Court Reports are very defective. More text-books are also needed. Many other serious wants might be specified.

We have only 4,400 volumes in all. The Harvard Law Library numbers 25,000 volumes. The students in the law schools in Boston, New York, Albany, Cincinnati, Chicago and St. Louis have access to the large collections in those cities.

The only considerable donation the Law Library ever received was that of the late Judge Fletcher, which numbered about 700 volumes, and it has been possible for the Regents with the funds at their disposal to increase the Library only at a very slow rate. It is obvious that our collection has been altogether

inadequate to the real and pressing needs of a Law School, which usually has from 300 to 400 students, which is in fact one of the most important in the country, and which gathers its students from all parts of the United States and from the British Provinces.

You may, then, be assured that your gift, which at once more than doubles the size of our Law Library, and furnishes the kind of works we especially need, is most welcome to us. Your timely liberality will be fruitful of great good, and will be most heartily and gratefully appreciated by our students, our Faculties, the Regents, and indeed by all friends of the University.

Yours very gratefully and respectfully,

JAMES B. ANGELL.

The Law Faculty to Mr. Buhl.

ANN ARBOR, February 14, 1885.

C. H. BUHL, Esq., Detroit, Mich. :

DEAR SIR,—The undersigned, members of the Law Faculty of the University of Michigan, desire to express their grateful sense of your munificence in giving your valuable law library for the use of the Law Department. It is not only the largest acquisition ever made in our Department, but is intrinsically of great value in supplying a pressing want never yet met by the University appropriations. We have worked under great disadvantages in being confined for the students' means of reference to a comparatively small collection of works of prime necessity. We have never had the facilities needful for the extended study of jurisprudence in the Library. Our own work has had to be done by the aid of other libraries, and members of our classes who wished to follow out and verify doctrines fully, have had to do much of that work elsewhere. Your handsome donation is very encouraging, both as showing an interest in the welfare of the University and as a recognition of the importance to the community of full and liberal culture in the science which deals most directly with the peace and good order of society. Whether your good example is or is not a harbinger of further benefits from generous men, it will secure you a lasting and honored remembrance among those who best appreciate by what means the interests of communities are elevated and most surely estab-

lished. Wishing you every good thing that may add to the comfort of a life well spent, we are your obliged friends and servants,

JAMES V. CAMPBELL,
WILLIAM P. WELLS,
CHARLES A. KENT,
HENRY WADE ROGERS,
HARRY B. HUTCHINS.

The Law Students to Mr. Buhl.

At a very enthusiastic meeting of the Law students the following resolutions were adopted :

WHEREAS, The Law Department of the University of Michigan has been made the recipient of a gift of 5,000 volumes of valuable law books from C. H. Buhl, Esq., of Detroit ; therefore be it

Resolved, By the students of the Law Department, that a committee be appointed to express our deep sense of gratitude to Mr. Buhl for his beneficent donation and our keen appreciation of the generous motives that prompted it. Be it

Resolved, further, That we take steps to secure a portrait of Mr. Buhl to be placed in the lecture room as a permanent memento of his munificence.

The letter which was sent to Mr. Buhl, in accordance with the above resolutions, is as follows :

C. H. Buhl, Esq., Detroit, Michigan :

DEAR SIR.—We, the students of the Law Department of the University of Michigan, have been apprised of your magnificent donation to the library of this department, and wish to express to you our appreciation of your kind remembrance and our gratitude for your generosity.

Your gift is the most liberal in the history of this department, and adds exceedingly to the efficiency of the school in affording students a much wider field for independent investigation.

We regard this gift as a gratifying indication that the work done in this department is appreciated by our public spirited citizens and by the friends of the University.

Your worthy example is especially valuable for the inspiration it will give to our citizens at large in inducing them to make sacrifices, if need be, in support of our admirable educational system that has caused Michigan in general intelligence

and culture to take such high rank among her sister States, and has rendered our community more attractive and our property more secure and valuable.

Michigan University need have no fear for the future so long as able and liberal friends like yourself are ever keeping a watchful eye on her needs.

We wish once more to express our profound sense of gratitude, and to assure you that we shall do our utmost to deserve the confidence in us which you have thus manifested.

Very respectfully yours,

D. J. HAFF,
L. M. ACKLEY,
I. N. HUNTSBERGER,
JAMES L. HAMILL,

Committee.

Regent Grosvenor moved that the salary of Professor Olney be continued until October 1st. The motion was carried by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Blair and Clark.

Nays—None.

Professor M. W. Harrington of the Chair of Astronomy, asked for a leave of absence for the next Academic year, on account of illness, his salary to lapse during his absence. On motion of Regent Grosvenor the request of Professor Harrington was granted.

On motion of Regent Grosvenor, John M. Schaeberle, C. E., was appointed Acting Assistant Professor of Astronomy, with the salary of sixteen hundred dollars (\$1600), during the absence of Professor Harrington.

On motion of Regent Grosvenor the Auditing Board was instructed to pay H. Lupinski, Assistant Demonstrator of anatomy, for actual time employed, at the rate of fifty dollars per month.

Dr. Prescott addressed the Board in regard to changing the title and increasing the salary of Michael Condon. On motion of Regent Blair the consideration of the matter was deferred until the next meeting of the Board.

Acting Professor V. M. Spalding being desirous of going abroad to study, asked for and obtained leave of absence for the first semester of next year, his salary to lapse during his absence.

Regent Blair presented and read the following communication from W. H. Pettee, Secretary of the University Senate :

ANN ARBOR, March 20, 1885.

To the Honorable Board of Regents:

As Secretary of the University Senate, I beg leave to report to you that that body has had under consideration the question relating to the Commencement dinner, referred to them by your Honorable Board, and has voted " that the Regents be recommended either to hold the Commencement dinner in the rink, or to procure a tent for that purpose, and that admission thereto should be only by ticket."

Very respectfully,

W. H. PETTEE,

Secretary of the University Senate.

On motion of Regent Grosvenor the Auditing Board were instructed to secure the rink for the purpose named above.

The President having been called away to attend the Commencement exercises at the Dental College, Regent Blair was called to the chair, and on motion of Regent Van Riper the Board adjourned.

JAMES H. WADE,
Secretary.

JUNE MEETING.

1885.

UNIVERSITY OF MICHIGAN,
TUESDAY, JUNE 23d, 1885. }

The Board of Regents assembled in the Room of the President at 10 o'clock a.m.

Present—the President, Regents Duffield, Van Riper, Grosvenor, Shearer, Joy, and Willett.

The Meeting was called to order and opened with prayer by the President.

Sundry papers which had reached the President were on motion referred to appropriate Committees of the Board.

On motion of Regent Grosvenor the minutes of the last meeting were approved as printed.

Dr. A. B. Palmer, Dean of the Department of Medicine and Surgery, submitted the following recommendation:

To the Honorable, the Board of Regents of the University of Michigan :

The following named persons having complied with all the requirements made for graduation in the Department of Medicine and Surgery, are recommended for the Degree of Doctor of Medicine:

Wallace Calvin Abbott,
John Heman Andrus,
John Monroe Armstrong,
John William Bosman, Jr.,

George Haylett Brett,
LeRoy Brown,
Walter Seymour Brown,
Mary Alice Brownell,

Howard Carey,
 Robert George Cavanagh,
 Charles Gilbert Chaddock,
 Harry Sprague Chapman,
 Charles Eugene Chappell,
 Alva Nicholas Collins,
 James Henry Dawson,
 John William Denison,
 Albert Edward DeWitt,
 Will James Duff,
 Daniel Chauncey Dye,
 Murt'n Luther Eaton,
 William Edward Ely,
 William Albert Fisher,
 Ernest William Fleming,
 Francis Albert Foster,
 Mary Celinda Foster,
 Anna Mary Goebel,
 Harris Graham,
 Andrew Jackson Hosmer,
 Samuel Wilbur Haver,
 Horace Echland Hungerford,
 Florence Huson,
 Sophie Bethena Jones,
 Celia C. Kuhry,
 Guy Leland Laraway,
 Joseph Milton Lawson,
 George W. Lilly,
 Daniel Webster Loney,
 Frank Mansfield Loring,
 Henry Keep Lum,
 * Homer Seldon Lynn,
 John Bartley March,
 Harriet Sanderson Maxson,
 William Edward H. Morse,
 Abraham Lewis Boughner,

* Deceased.

Hannah Leah Nichols,
 Julius Noer,
 Chester Arthur Norconk,
 Charlotte Moore Norton,
 Frank Stiles Owen,
 Giles Ripley Pease,
 Theodore Wing Peers,
 Olney Galen Place,
 James Martin Postle,
 John William Rand,
 Charles Everett Rankin,
 John William Ringer,
 Arthur Jay Roberts,
 Jacob Charles Rothenburg,
 Jacob Lincoln Schoch,
 Frank Barton Schurtz,
 James Hiram Scott,
 Fred Romaine Seger,
 David Gregg Sharpe,
 John Strickler Shrader,
 Samuel Bernard Snyder,
 William Addison Stone,
 Ora Carlton Strickler,
 George Lyman Taylor,
 Philander B. Taylor,
 William Herbert Taylor,
 Lafayette Van Amburg,
 Arthur Van Der Velpen,
 Louisa Van Vleet,
 Cornelius Van Zwaluwenburg,
 Oliver Richard Venable,
 Stanley Abbott Warner,
 Virginia Jane Watts,
 Fred Hamilton Weir,
 Oscar F. Wilson,
 Benjamin Pomeroy Wright,

Very Respectfully,

A. B. PALMER, DEAN.

The Committee on Medical Department submitted the following resolution which was adopted.

Resolved, That the Degree of Doctor of Medicine be and is hereby conferred upon the persons named in the recommendation of the Faculty of the Department of Medicine and Surgery.

J. J. VAN RIPER, JAMES F. JOY, JAMES SHEARER,	}	Committee.
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Regent Van Riper presented and read the following communication from the Faculty of the Dental College :

ANN ARBOR, June 23, 1885.

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN :—The following named persons having complied with all the requirements of this Department, are recommended by the Faculty of the Dental College, subject to your approval, for the Degree of Doctor of Dental Surgery :

William Henry Bailey,	Charles A. Murray,
Marian Joseph Coy,	Robert Nicol,
Homer Adelbert Drake,	William Morris Pack,
Elijah Johnson Galbraith,	Frank William Ryan,
Elsie Adelaide Hallock,	May Cleo Smith,
Clara W. McNaughton,	Isaac Aaron Stitt,
Hervey Cotton Merrill,	Robert Fisk Taggart,

Respectfully submitted,

J. TAFT, DEAN.

The Committee on Dental Department submitted the following resolution which was adopted :

Resolved, That the Degree of Doctor of Dental Surgery be conferred on the persons named in the recommendation of the Faculty of the College of Dental Surgery.

J. J. VAN RIPER,	} Committee.
JAMES F. JOY,	
JAMES SHEARER,	

Regent Joy, Chairman of the Law Committee, presented and read the following communication from the Law Faculty :

To the Honorable, the Board of Regents of the University of Michigan :

The Faculty of Law respectfully report that the following named persons have completed their course of instruction in the Law Department, and passed all the required examinations, and they therefore recommend that the Degree of Bachelor of Laws be conferred upon them :

Lemuel M. Ackley,	Whitney Craig Beckwith,
Harry Stoddard Ames,	Lawrence Frederick Bedford,
Adrian Wilson Annes,	Truman Thaddeus Bell,
Henry Avant.	John W. Bennett,
Eugene Nimrod Baer,	William Clarence Bicknell,
George Washington Barker,	George D. Blake,
Walker Bascom,	Moses Bloch,
Charles Bechhoefer,	Varian Chandler Botsford,

John Harvey Brigham,
Joseph Alvarado Brubacher,
Nathaniel Lions Bryan,
George Edward Budd,
Rosseau A. Burch,
Frank Estil Burrough,
Milton Green Cage,
Richard Vincent Callan,
William Alexander Cant,
Wilkie Waverley Chapman,
Henry Clothier,
Silas Cobb,
George Churchill Cook,
John McMullan Core,
Benjamin F. Cummings,
Frank Henry Cutting,
Lyttleton Marion Day,
Ezra Dean,
James Renwick Dean,
Howard Washington Dickinson,
Franklin Mansfield Doane,
William Van Aken Dodds,
George Henry Dole,
Horace Benjamin Doughty,
Doron Stephenson Downing,
Thomas Francis Drew,
Vincent Joseph Duncan,
Winfield Scott Essex,
Norman von Schrader Farquhar,
John William Ferdon,
Harry Corwin Flower,
William Edward Flynn,
H. Robert Fowler,
John Christian Frank,
Walter Alzera Funk,
Mary Clara Geigus,
Phillip Gilbert,
Frank Goddard,
Joseph Franklin Greene,
Roscoe Clark Griffith,
Richard Wirt Groom,
Carl Grosse,
Norman Washington Haire,
Henry Hermann Haines,
James Lyon Hamill,
David Dickerson Harger,
Daniel Harrison,
Galen Campbell Hartman,
Michael Francis Healey,
Franklin Pierce Hettinger,
James Hettinger,

Henry Benjamin Hill,
Joe David Hill,
Herbert Augustus Hodge,
James Michael Holland,
Cassius Hollenbeck,
Ralph Randolph Horth,
William Garland Hughes,
Lewis Casey Hunt,
William Ross Hutchinson,
Henry Wallace Ingersoll,
William Warren Irwin,
William Allan Stanley Keirstead,
Henry Herbert Kennedy,
Henry James Killilea,
Henry Lewis King,
Bradford A. Knight,
Frank Roy Lander,
Hiram S. Laney,
Calvin Leavitt,
Jesse Ross Lee,
Elmer Nelson Leonard,
Wilmer Leonard,
John Othello Lacey,
Loring R. Loomis,
John Alfred Magoon,
James Clarke Maltby,
Thomas McEnery,
William McEniry,
Charles Greer McIlvaine,
Andrew Cunningham McLaughlin,
James McDonald McLennan,
Adam H. Meeker,
James Henry Moyle,
Elmer Elsworth Mummert,
Charles Eugene Oliver,
David Curtiss Parker,
Burton S. Parsons,
Harry Lewis Pierce,
Samuel J. Platt,
William Harrison Roose,
Duncan James Rose,
Edward Adolphus Rosenthal,
Charles Gaston Ryan,
Frank Sangster,
Otto Kessler Sauer,
Francis Eldon Slattery,
Charles Osmer Smedley,
Frank B. Smith,
Osmond Hubert Smith,
Samuel H. Smith,
John Davis Spinney,

Louis Alphonso Springer,
Charles Coburn Stevenson,
William Herbert Strickland,
William Harvey Strong,
William S. Summers,
William Grant Sutfin,
Kadzutomo Takahashi,
Charles William Taylor,
Johnson Thurston,

Richard Hull Thurston,
Thomas Jefferson Tooley,
George Damon Tunnicliff,
Thomas Van Buskirk,
Waldemar Van Cott,
John Burton Wallace,
Eugene Alvin Woodward,
John Sanford Wright,
Clement C. Yerkes.

Respectfully submitted for the Faculty,

HENRY WADE ROGERS, Secretary.

ANN ARBOR, June 23, 1885.

The following resolution submitted by Regent Joy was adopted by the Board:

Resolved, That the Degree of Bachelor of Laws be and the same is hereby conferred upon the persons named in the recommendation of the Faculty of the Department of Law.

Regent Duffield, Chairman of the Committee on Literary Department, submitted the following communication from the Faculty of the Department of Literature, Science, and the Arts:

To the Honorable, the Board of Regents:

GENTLEMEN,

By direction of the Faculty of the Department of Literature, Science, and the Arts, I have the honor to report that the following named persons are recommended to you for the degrees indicated:

BACHELOR OF LETTERS.

May Ella Barnes,	George Washington Lacea,
Jessie Beals,	May McNeil, Ph. C.,
Charles Platt Bush,	Alice May Spencer,
Mary Elizabeth Clark,	Delos Thompson,
Myrtle Celia Hudson,	Ora Thompson,

Levi Peet Wilcox.

BACHELOR OF SCIENCE.

(COURSE IN MECHANICAL ENGINEERING.)

Frank Casper Wagner, A. M.

BACHELOR OF SCIENCE.

(COURSE IN CIVIL ENGINEERING.)

Emil Bauer,	Charles Harman Lane,
Edward Decius Clary,	Egbert Theodore Loeffler,
Alexander Edward Kastl,	George Frederick Samuel.

BACHELOR OF SCIENCE.

Henry Zachary Brock,
Herbert Henry Crisp,
Robert Fitch Eldredge,

Rufie Alice Jordan,
Thomas J. Peach,
Thomas Charles Phillips,
Effie Almira Southworth.

BACHELOR OF PHILOSOPHY.

Nellie Borland,
David Henry Browne,
Don Carlos Corbett,
Louis Munroe Dennis,
Samuel Fred Hawley,
Abby Little Hitchcock,
Fred William Job,
Charles Cenica Keen,

Ernestine Mergler,
Edward Jerome Phillips,
Mary Burnham Putnam,
John Oren Reed,
Charles H. Richmond, Jr.,
Andrew Cooper Robeson, LL. B.,
Mary Elizabeth Schmermund,
Lura Wallace Tozer.

BACHELOR OF ARTS.

Cora Allen,
Carrie Phebe Bell,
Reno Randolph Billington,
Franklin Pierce Blackman,
Arthur Lebell Bresler,
William Elmer Brownlee,
Robert Newton Burnett,
George Emanuel Cutler,
John Patterson Davis,
Joseph Villiers Denney,
Joseph Horace Drake,
Henry Harvey Frost,
Louis Gascoigne,
Elliott Oliver Grosvenor,
Charles Henry Harvey,
Shelley Eugene Higgins,
George Alfred Hunt,
Eugene LeRoy Lockwood,

Henry Rood Loveland,
Charles McClellan,
Tom Henry McNeil,
Pliny Moore Moodie,
Samuel Conant Parks,
Alvah Grenelle Pitts,
Elmer Elsworth Powell,
Horace G. Prettyman,
George Christoph Schemm,
James B. Sheean,
George Beatty Sheehy,
Bowen Wisner Shoemaker,
George Bishop Sudworth,
Gertrude Mary Sadworth,
Mary Ella Thompson,
Allen Sisson Whitney,
Margaret Lyons Wilcox,
Arthur Henry Williams,

William Foster Word.

MASTER OF LETTERS.

Ida Ann Morrish.

MECHANICAL ENGINEER.

Frank Merrill Dunlap, B. S.

MASTER OF SCIENCE,

Arthur Alger Crozier.

MASTER OF ARTS.

George Barnes, A. B.,
J. Rose Colby, A. B.,
Horace Spencer Fiske, A. B.,

Alexander Frederick Lange,
Edwin Lincoln Moseley,
Edward Adolphus Rosenthal, A. B.
Respectfully Submitted,

P. R. DE PONT,

Secretary of the Faculty.

Regent Duffield submitted the following resolution, which was adopted:

Resolved, That the degrees, as indicated in the communication just read, be conferred upon the persons named, in accordance with the recommendations of the Faculty of the Department of Literature, Science, and the Arts.

Regent Grosvenor, Chairman of the Finance Committee, submitted the following resolution, which was adopted:

Resolved, That Article 1, Chapter 7, lines 6, 7, and 8, of the By-Laws, be changed to read as follows:

“The salaries shall be payable quarterly, on the last day of March, June, September, and December, in each year.”

It was explained that this change is desirable, so that the quarterly reports shall show the payment of salaries in the quarter in which they are earned.

Regent Shearer, Chairman of Committee on Buildings and Grounds, presented and read the following communication from the University Senate:

UNIVERSITY OF MICHIGAN,

June 19, 1885.

To the Honorable Board of Regents:

By direction of the University Senate, I hereby express to you their desire that your Board will be pleased to grant the use of the University buildings and grounds, so far as may be needed, for the purposes of the meeting of the American Association for the Advancement of Science, to be held in Ann Arbor, in August next.

Respectfully Yours,

W. H. PETTEE,

Secretary of the Senate.

On motion of Regent Shearer, the use of the buildings and grounds was granted to the American Association for the Advancement of Science, in August, under the supervision of the President and the Secretary.

Regent Joy, Chairman of the Committee on the Pharmaceutical Department, presented and read the following communication:

UNIVERSITY OF MICHIGAN, }
 School of Pharmacy, }
 June 23, 1885. }

To the Honorable, the Board of Regents :

GENTLEMEN—The following students having completed all requirements for graduation, are recommended to you by the Faculty of this Department for the degree of Pharmaceutical Chemist :

Frank Marvin Clark,	Samuel John North,
Thomas Newton Cunningham,	Henry Palmer,
Charles Leslie Davis,	Charles Edwin Parker,
John Simeon Dunn,	Roland J. Parker,
Herbert P. Ewell,	Willard Fountain Pett,
Anstrice Gertrude Flanders,	William Frederick Ranke, Jr.,
Allyn Boughton Geddes,	D. Frank Rice,
Benjamin Joseph Lauer,	Arthur Sidney Rogers,
James Edward McCrilles,	Albert William Smith,
Adolph Edward Melcher,	Henry Hall Spencer, A. B.,
James Edward Melville,	Laird Joseph Stabler,
Arthur Ebenezer Mummery,	Samuel Gideon Steiner,
	Edward Augustus Tupper, Jr.

By direction of the Faculty,

Respectfully submitted,

T. J. WRAMPELMEIER,

Secretary of the Faculty of the School of Pharmacy.

On motion of Regent Joy, the degree of Pharmaceutical Chemist was conferred on the persons named in the communication, as recommended by the Faculty of the School of Pharmacy.

Regent Joy presented the unanimous request of the law graduating class, asking the Board to authorize Judge Cooley to sign the diplomas of this year, as he lectured during their Junior year. On motion of Regent Joy the request was granted.

On motion of Regent Van Riper, the request of Dr. George A. Hendricks, Secretary of the Medical Faculty, asking for an increase of salary, was referred to the Medical Committee and the Finance Committee jointly.

Regent Joy presented the request of the Law Librarian, Mr. J. H. Vance, for an increase of salary, and moved that the request be referred to the Law Committee and Finance Committee jointly, which was so ordered by the Board.

Regent Joy presented and read the following communication from the Secretary of the Law Faculty.

To the Honorable, the Board of Regents of the University of Michigan:

The Faculty of Law desire to call the attention of the Board to the condition of the Law Library, and to the importance of making a sufficient appropriation to secure the current reports for the ensuing year. The State Reports, so generously presented to the Library by the Honorable C. H. Buhl of Detroit, for the most part only come down to the year 1882, and it is very desirable to obtain the reports which have been issued since that time. To provide for the current volumes of reports will probably require from five hundred to six hundred dollars. If the Board will appropriate one thousand dollars this year, and one thousand dollars next year, we can keep up the current reports and supply our deficiencies.

Respectfully Submitted,

HENRY WADE ROGERS, Secretary.

Ann Arbor, June 23d, 1885.

On motion of Regent Joy the request of the Law Faculty, just read, was referred to the Law and Finance Committees jointly.

Regent Duffield presented and read the following communication from the University Senate.

UNIVERSITY OF MICHIGAN,

June 19, 1885.

To the Honorable Board of Regents:

By direction of the University Senate, I hereby transmit to you an expression of the desire of that body, that your Board may be pleased to consider the propriety of making provision for an appropriate celebration of the approaching semi-centennial anniversary of the organization of the University.

Respectfully Yours,

W. H. PETTEE,

Secretary of the Senate.

On motion of Regent Duffield the subject matter of the communication just read was referred back to the University Senate for further consideration, as to time and other details, with the request that they report their conclusions at some future meeting of the Board.

Regent Joy submitted the following resolution:

Resolved, That the sum of seventy-five dollars be appropriated for advertising the Law Department for the ensuing year.

The resolution was carried by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Joy, and Willett.

Nays—None.

The following communication from the Ann Arbor Water Company was presented and read by Regent Shearer:

ANN ARBOR, Mich., June 22, 1885.

To the Board of Regents of the University of Michigan:

GENTLEMEN—On behalf of the Ann Arbor Water Company, I desire to request that your Board will give to this Company an opportunity to present a proposition for supplying the University of Michigan, for all purposes which your Board may deem desirable, with water.

The source of supply which our Company have secured is from springs, and the water we shall furnish will be good spring water. The works will be completed about October 1st, 1885.

Very truly,

A. W. HAMILTON,

For the Ann Arbor Water Works Company.

Regent Shearer moved that 2 o'clock this afternoon be named as the time when the Board would hear any proposition the Water Company desired to submit. The motion prevailed.

Regent Van Riper presented and read the following communication from the Faculty of the Homœopathic Medical College:

ANN ARBOR, June 23, 1885.

To the Honorable, the Board of Regents:

The following members of the Senior Class of the Homœopathic Department, having complied with the requirements, are recommended by the Faculty for degree of Doctor of Medicine:

Ervin Davis Brooks,

Charles Stevens Hunting,

Stella Elora Chapman Jacobi,

Will Orlando Jacobi,

Ira Albert Leighton,

Perley P. Sanborn.

Respectfully,

NEWTON BALDWIN, Acting Dean.

Regent Van Riper submitted the following resolution, which was adopted:

Resolved, That the degree of Doctor of Medicine be conferred upon the persons named in the recommendation of the Faculty of the Homœopathic Medical College.

A communication from John Butler, asking an increase of salary, was read by Regent Shearer, and on his motion was referred to the Committee on Buildings and Grounds and the Finance Committee jointly.

Regent Joy presented the request of T. J. Wramplemeier for an increase of salary, which on motion was referred to the Committee on School of Pharmacy and the Finance Committee jointly.

Regent Joy, Chairman of the Pharmaceutical Committee, presented the following communication from the Director of the Chemical Laboratory:

CHEMICAL LABORATORY, June 23, 1885.

To the Honorable, the Board of Regents:

GENTLEMEN—I beg leave to recommend that the appointments of the following named members of the teaching force of the Chemical Laboratory be continued for the year 1885-6, each at the same salary given in 1884-5, namely: Edward D. Campbell, Assistant in the Chemical Laboratory, \$130; Eugene V. Riker, A. B., Assistant in the Chemical Laboratory, \$130; Theodore Royer, Jr., Ph. C., A. B., Assistant in Quantitative Analysis, \$250; Kate C. Johnson, Ph. C., Dispensing Clerk, \$600.

In place of Arthur L. Greene and Charles F. Adams, each Assistant in the Chemical Laboratory in 1884-5 at \$130 salary, I recommend the appointment of Arthur L. Greene, Ph. C., at a salary of \$260 for the year 1885-6, as Assistant in Pharmacognosy.

In place of Lucius Van Slyke, Assistant in 1884-5 at a salary of \$500, I recommend the appointment of Charles L. Davis, Ph. C., as Assistant in Qualitative Chemistry at a salary of \$250, for the year 1885-6. And further, in the place of Mr. Van Slyke, in expenditure of the remaining \$250 of his place, I shall desire to recommend another appointment at a date not later than your October Meeting.

Very respectfully,

ALBERT B. PRESCOTT, Director.

On motion of Regent Joy, the persons named in the foregoing communication were appointed in accordance with the recommendation of the Director of the Laboratory by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Joy, and Willett.

Nays—None.

Regent Duffield presented the following communication from the Faculty of the Department of Literature, Science, and the Arts:

To the Honorable, the Board of Regents:

GENTLEMEN—I have the honor to inform your Honorable Body that the Faculty of the Department of Literature, Science, and the Arts, at its meeting of April 20th, considered a plan for the establishment of a special course in Science leading to a degree to be known as *Bachelor of Science in Biology*.

The Faculty voted to request your Honorable Body to establish such a course and degree, and I beg leave to submit to your consideration the accompanying document which contains the details of the plan.

Respectfully submitted,

P. R. DE PONT, Secretary of the Faculty.

ANN ARBOR, June 23d, 1885.

Studies Leading to the Degree of Bachelor of Science in Biology.

A course of study has been provided for students who wish to devote their time largely to biological work, either as a preparation for the study of medicine or with a view to teaching or engaging in biological research.

In the first year Modern Languages, Mathematics, and Drawing, and in the second year, Elementary Physics and Chemistry are required, as being absolutely essential to the successful prosecution of an extended course in Science. Zoology, Botany, and Physiology are the most prominent subjects of the course, but full opportunity is given for extended work in Physics, Chemistry, Paleontology, and other sciences. The laboratories of the University are provided with the necessary facilities not only for ordinary biological work, but for somewhat extended research, and every encouragement will be given to students, especially in the last year, to devote themselves to original investigations.

**PLAN OF STUDIES LEADING TO THE DEGREE OF BACHELOR
OF SCIENCE IN BIOLOGY.**

		STUDIES REQUIRED.	No. of Course.	Hours in Each Course.	Total Hours.	STUDIES ELECTIVE.	No. of Course.	Hours in Each Course.
FIRST YEAR.	First Semester.	Mathematics.....	10, 12	2, 1	16			
		German.....	1	4				
		French.....	1	4				
		English.....	1	2				
		Drawing.....	4	3				
	Second Semester.	Mathematics.....	14, 15	2, 2	17			
		German.....	3	4				
		French.....	4	4				
		Botany.....	3	5				
SECOND YEAR.	First Semester.	Botany.....	7	5	10	Geology.....	1, 2	2, 1
		Physics.....	10	5		Mineralogy.....	1	2
	Second Semester.	Zoology.....	2 b	5	12	Physical Laboratory	4	5
Chemistry.....		2	5					
Logic.....		3	2					
THIRD YEAR.	First Semester.	Zoology.....	8	5	10	Botany.....	1	5
		Physiology.....	2	3		Qualitative Chemistry	1	10
		Osteology.....	6	2		Rhetoric.....	2	2
	Second Semester.	Physiology.....	2 a	3	7	Physiological Chemistry	8	7
Histology.....		3	2	Botany.....		3 b	5	
Embryology.....		10	2	Paleontology.....		7	5	
FOURTH YEAR.	First Semester.	Sanitary Science,	1	2	5	Organic Chemistry	4	5
		Philosophy.....	1	3		Systematic Zoology	1	5
	Second Semester.					Botany Invstig's Zoology "		5
						Physiology "		5
						Histology "		5
						Ident. of ann'l spec.	4	5

Schedule of Special Biological Studies Required and Recommended in the Biological Course.

COURSES REQUIRED.

BOTANY. Flowerless plants; *yeast, nortors, macor, chara, mosses, equisetum, ferns.*

Phanerogams. (*Structural Botany.*)

ANIMAL MORPHOLOGY. Invertebrates; *amoeba, vorticella, hydra, mussel, crayfish.*

Vertebrates; (Dissection); *frog, terrapin, fish, pigeon, mammal.*

Comparative Osteology.

Embryology (especially of chick).

ANIMAL HISTOLOGY. (Laboratory.)

ANIMAL PHYSIOLOGY. (Experimental demonstrations.)

SANITARY SCIENCE.

COURSES RECOMMENDED.

BOTANY. Cellular cryptograms (fungi).

Physiology of plants.

Comparative anatomy of Phanerogams.

Original investigation.

ANIMAL MORPHOLOGY. Systematic Zoology.

Identification of species.

Original investigation.

ANIMAL PHYSIOLOGY. Laboratory work.

Original investigation.

ANIMAL HISTOLOGY. Original Investigation.

PHYSIOLOGICAL CHEMISTRY. (Laboratory.)

PALEONTOLOGY.

To obtain the recommendation of the Faculty for the degree of Bachelor of science in Biology the student must complete twenty-six full courses, of which the following fifteen and two-fifths courses are prescribed, and a further choice from the studies recommended is urgently advised.

STUDIES REQUIRED.	No. of Course.	No. of Hours.	Total Hours.
Mathematics	10.12.14.15	2.1.2.2	7
French	1.4	4.4	8
German	1.3	4.4	8
English	1.	2.	2
Drawing	4.	3.	3
Botany	3.7	5.5	10
Physics	10.	5.	5
Zoology	2b.8	5.5	10
Chemistry (descriptive)	2.	5.	5
Philosophy (Logic)	3.	2.	2
Animal Physiology	2.2a	3.3	6
Animal Histology	3.	2.	2
Animal Embryology	10.	2.	2
Comparative Osteology	6.	2.	2
Sanitary Science	1.	2.	2
Philosophy (Psychology)	1	3.	3

STUDIES RECOMMENDED.	No. of Course.	No. of Hours.
Geology.....	1.2	2.1
Mineralogy.....	1.	2.
Physical Laboratory.....	4.	5.
Botany.....	1.3b.?	5.5.5
Qualitative Chemistry.....	1.	10.
Rhetoric.....	2.	2.
Physiological Chemistry.....	8.	7.
Paleontology.....	7.	5.
Organic Chemistry.....	4.	5.
Zoology.....	1.4.?	5.5.5
Physiology.....	?	5.

Professor V. M. Spalding, being present, explained to the Board the necessity of establishing the special course in Biology, mentioned in the foregoing communication. At the conclusion of Professor Spalding's remarks Regent Shearer moved that the whole subject be referred to the Finance Committee and the Literary Committee for consideration. It was so ordered by the Board.

Professor Langley addressed the Board on the needs of the Laboratory of general chemistry, and asked the Board to appropriate one thousand dollars for the use of the department for the coming year.

On motion of Regent Van Riper the request of Professor Langley was referred to the Literary Committee and the Finance Committee jointly.

On motion of Regent Joy the minutes of the meeting of March 24th, 1884, were corrected by adding the name of W. R. Sawyers to the list of graduates in the Law Department for the year 1884. By some oversight this name was omitted in the printed list.

On motion of Regent Willett the Board took a recess to 2 o'clock p. m.

AFTERNOON SESSION.

The Board reassembled at 2 o'clock p. m. Regent Clark having arrived the full Board were present. The special order for this hour was to hear the proposition of the Ann Arbor Water Company to furnish the University with water. Mr. A. W. Hamilton, representing the Water Company, being present, addressed the Board at length on

the subject. At the conclusion of Mr. Hamilton's remarks, and on motion of Regent Willett, the whole matter was referred to the Committee on Buildings and Grounds.

Professors Demmon and Thomas appeared before the Board and pressed the importance of one additional assistant for instruction in English and in German. On motion of Regent Shearer the request of Professors Demmon and Thomas for additional assistance was referred to the Committee on the Literary Department and the Finance Committee for consideration.

The following communication in relation to the Chinese exhibit at New Orleans was presented and read by Regent Duffield.

OFFICE OF THE CHINESE COMMISSION, }
WORLD'S I. & C. C. EXPOSITION, }
NEW ORLEANS, 13 June, 1885. }

SIR: In confirmation of Mr. Spinney's telegram to you of yesterday's date we have very much pleasure in informing you that Sir Robert Hart, Inspector-General of Chinese customs and President of the Chinese Commission to the New Orleans Exposition, acting for the Chinese Government, has instructed us to present the Chinese exhibit to you.

We will deliver the exhibit to whomever you may authorize to receive it, and will give your representative such explanations of the lay figures, models, &c., &c., as may be necessary to set them up properly.

We will endeavor to arrange with the customs officials for the remission of the duty on the goods composing our exhibit which were entered in bond.

We have the honor to be, Sir,

Your Obedient Servants,

W. F. SPINNER,

JULIUS NEUMANN,

Commissioners for China to New Orleans Exposition.

TO HON. JAMES B. ANGELL, LL. D.,

President of the University of Michigan, Ann Arbor, Mich.

Regent Van Riper submitted the following resolutions, which were adopted by the Board unanimously.

Resolved, That the cordial thanks of this Board be returned

to the Chinese Government for the generous gift to this University of the Chinese exhibit at the New Orleans Exposition ;

Resolved, That we also desire to express to Sir Robert Hart, K. C. M. B., Inspector-General of the Chinese Imperial Maritime Customs of China, our grateful appreciation of his kind services in securing the above-named exhibit for this University.

On motion of Regent Grosvenor the Auditing Board were authorized to audit and pay all bills incurred in removing the Chinese Exhibit from New Orleans and placing the same in the Museum.

Dr. E. S. Dunster, being present, addressed the Board on the needs of the Medical Library.

President Angell read the following report of the Executive Committee :

ANN ARBOR, June 22, 1885.

The Executive Committee beg leave to report that since the last meeting of the Board they have taken action as follows :

In April Charles Francis Adams resigned his place as Assistant in the Chemical Laboratory, and on recommendation of Dr. Prescott, Director, we appointed Fred. G. Novie, in his stead, for the remainder of the Academic year, 1884-5, on a salary of \$130 a year.

Professor Harrington's health having failed in the early days of April, we consented to his taking leave of absence and placing his classes for the remainder of the semester in the hands of instructor Schaeberle.

J. B. ANGELL,
E. O. GROSVENOR, } of Com.

At the conclusion of the reading of the report, and on motion of Regent Duffield, the report was approved and adopted.

On motion of Regent Van Riper the Board adjourned to 7.30 p.m.

EVENING SESSION.

Professor C. K. Adams was present, and by request addressed the Board at length in relation to the purchase of a clock to be placed in the tower of the Library

Building. Professor Adams had given this matter much attention, and was able to place before the Board several propositions from the best manufacturers to do this work, which on motion of Regent Clark were referred to the Committee on Buildings and Grounds.

On motion of Regent Van Riper the Board went into Executive Session, and listened to Doctors Obetz, Baldwin, Long, and McGuire, on the present condition and needs of the Homœopathic Medical College. The entire session was occupied in discussing this department, and at a late hour, on motion of Regent Van Riper, the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

WEDNESDAY, June 24.

The Board reassembled at 9 o'clock a. m.

Dr. J. Taft, Dean of the Dental Department, presented and read the following report and recommendations:

ANN ARBOR, June 23, 1885.

To the Honorable, the Board of Regents of the University of Michigan :

GENTLEMEN :—The condition of affairs in the Dental College during the year just closed is encouraging ; there have been in attendance 84, a larger number than ever before, with one exception, and this, notwithstanding the entrance examination was more rigid than formerly. Lengthening the term, and raising the requirements for entrance, have not resulted in lessening the attendance. During the last two years and for the term just closed especially, the work has been carried on with considerable embarrassment in two respects. First, more room is needed for the *clinical* or *operative* department. The present room has been for the past three years uncomfortably crowded, and during the present term six chairs had to be placed in the lecture room, which often interfered with the lecture and class work. There are 28 chairs in the operating room, while it will not comfortably accommodate more than 22. The present lecture room is needed for clinical work in addition to the present operating room.

Second:—A lecture-room better adapted to teaching purposes is greatly needed. The present room is too small, and is not of proper shape; the room should be of amphitheatre form, and of sufficient capacity to hold 125 students (with this is a sketch of a plan of a building that would afford ample accommodation). The room here suggested would be much better for all the didactic work, than the present one. As the accommodations are now, Dr. Ford particularly experiences great inconvenience in his especial work for the dental classes. The building should be two stories, the lecture room above; the lower story utilized for class rooms, metallurgy, special work, students' reading rooms, &c. The proper place for this improvement is at the west end of the present building upon the ground now occupied by the small wooden structure. The cost of the building is an item to which we have given some attention; an estimate has been made by a competent and reliable builder, which is herewith submitted, in which he proposes to put up the building completed for occupancy for \$2,542.00. The means with which to do this work is an important item. Upon this point we may be permitted to say that the \$16,000.00 appropriation for salaries in this department for two years is more than is required for the salaries of our present teaching force, and we are willing to go without additional help, if this important improvement can be made. From the practical work done here during the term, there has been an income of about \$

Might not this sum or a considerable portion of it at least, be used in this improvement? And might not a portion of the sum set apart for the renovation and improvement of the present buildings be used upon this new structure? If the suggestions just made are practicable it would seem that this improvement might be made without diverting funds appropriated to any other purpose. We have only made these suggestions because of the great need for this improvement and hope that the way may be opened for its accomplishment.

Very respectfully submitted,

J. TAFT, DEAN.

At the conclusion of the reading of the paper, and on motion of Regent Shearer, all matters contained in the report of Dr. Taft relating to salaries were referred to the committee on Dental Department and the Finance Committee jointly; and all matters relating to buildings, to the Committee on Buildings and Grounds.

The Literary and Finance Committees to whom was referred the request of Professors Demmon and Thomas for additional assistance recommended the appointment of A. W. Burnett, as Instructor in English and German for one year from October 1st at a salary of nine hundred dollars (\$900). The recommendation of the joint committee was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Van Riper the legislative appropriation for books the coming year was divided as follows:—Medical Library, \$1,000; Law Library, \$1,000; General Library, \$3,000.

The Literary and Finance Committees to whom was referred the question of establishing a Special Course in Science, leading to a Degree to be known as *Bachelor of Science in Biology*, recommended the Course, and that the Degree be established. On motion of Regent Shearer the recommendation of the Committee was adopted.

Regent Duffield submitted the following resolution :

Resolved, That the sum of two hundred and fifty dollars (\$250) be appropriated for the purchase of five new microscopes for use in the Histological Laboratory, and one hundred and twenty-five dollars (\$125) for the purchase of one Microscopical Stand, and ten Objectives for use in the Microscopical Laboratory, and that a uniform fee of three dollars per term for each microscope shall be charged in all the Laboratories, except for the Advanced Course in Histology, which is hereby fixed at five dollars per term.

The above resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Duffield the salary of Osgood Ingalls, Assistant in General Library, was increased from two hundred to three hundred dollars for the ensuing year, by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Grosvenor the following appointments were made for the ensuing academic year at a salary of \$900 each :

Benjamin L. D'Ooge, A. M., Instructor in Latin ; Homer H. Kingsley, A.B., Instructor in Mathematics ; John Dewey, Ph.D., Instructor in Philosophy.

The vote was unanimous.

Regent Van Riper submitted the following resolution :

Resolved, That there be appropriated out of the dental fund for the present year the sum of \$300 for books, periodicals, and binding, for the Dental Department.

The resolution of Regent Van Riper was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

On motion of Regent Willett, Professor H. W. Rogers was appointed Professor of Roman Law in the School of Political Science without compensation.

On motion of Regent Grosvenor the Executive Committee were authorized by the following vote to appoint M. E. Cooley Professor of Mechanical Engineering, at a salary of \$2,200 per year :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

Regent Van Riper submitted the following resolution :

Resolved, That Dr. J. N. Martin be appointed Lecturer on Oral Pathology and Surgery in the Dental College, at a salary of \$300, to be paid out of the Dental fund.

The above resolution was carried by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

Regent Grosvenor moved that the salary of T. J. Wrampelmeier be increased from \$900 to \$1,000.

The motion was carried by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Blair, the Board adjourned to 2 o'clock, p. m.

AFTERNOON SESSION.

The Board re-convened at 2 o'clock p. m.

Dr. Frieze and Professor Denison addressed the Board on the needs of the Department of Drawing, and Dr. Frieze also spoke of the needs of the School of Music.

Professor Winchell urged the importance of securing Dr. Rominger's Paleontological Collection for the Museum.

Regent Grosvenor suggested that the matter of insuring the Lewis Art Gallery be referred to the Executive Committee for consideration, and that they be requested to report their conclusions to the next meeting of the Board. It was so ordered by the Board.

The following resolution submitted by Regent Van Riper, was adopted:

Resolved, That we accept and receive on deposit the Rominger Paleontological Collection, so kindly tendered the University by Dr. Rominger, and that room be given it in the Museum, if agreeable to him.

Regent Shearer, Chairman of Committee on Buildings and Grounds, submitted the following report and recommendation, which was adopted:

The Committee on Buildings and Grounds, to whom was referred the proposals for a clock to be placed in the tower of the Library Building, would recommend, that the Auditing Board and Prof. C. K. Adams, be authorized and directed to make a contract with the E. Howard Watch and Clock Co., or their

agent, as they may deem best for the interests of the University. The amount not to exceed the appropriation.

The Committee on Buildings and Grounds were authorized to get plans, specifications, and bids, for the new Mechanical Laboratory, and proceed to erect the same.

On motion of Regent Duffield, the title of Calvin B. Cady, Instructor in Music, was changed to Acting-Professor of Music.

The Executive Committee reported that they had appointed Mortimer E. Cooley, U. S. N., Professor of Mechanical Engineering, at a salary of \$2,200, and that he had accepted the appointment. The report was accepted and adopted.

Regent Grosvenor submitted the following resolution :

Resolved, That the action of the Auditing Board, in securing for the University the Chinese Exhibit at New Orleans, is approved, and that they are hereby authorized to audit and pay all expenses necessary to its removal; and also all expenses to be incurred in removing the Rogers Collection of Models from Rome; and the placing of both collections in their appropriate places in the University. All such expenses shall be kept in a separate account, to the end that the University may be reimbursed by the State.

The resolution of Regent Grosvenor was adopted by the following vote.

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Grosvenor, the title of Assistant Professor Charles S. Denison was changed to Professor of Descriptive Geometry, Stereotomy, and Drawing, and his salary was fixed at \$1,600, by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Shearer it was declared to be inexpedient to enlarge the Dental College at present.

On motion of Regent Blair, the Executive Committee and the Law Committee were charged with the duty of filling any vacancy that may occur in the Law Faculty, and report their action at the next meeting of the Board.

Regent Van Riper presented the bill of S. B. Snyder for \$36, for services as door-keeper at the Clinical Amphitheatre for the year 1884-5. On motion the bill was laid on the table.

Regent Van Riper, Chairman of the Medical Committee, submitted the following report:

The Committee on the Homœopathic Medical College beg leave to report the following as their views of the reorganization of that department:

1st. That Dr. Wilson be retained in his present position with his present titles at a salary of \$2,000 per year.

2nd. That Dr. Obetz be retained in his present position at \$2,200 per year.

3rd. That Dr. H. K. Arndt be appointed Professor of Materia Medica at a salary of \$2,000 per year.

4th. That Dr. J. C. Wood be appointed Professor of Obstetrics and Diseases of Women and Children at a salary of \$1,600 per year.

5th. That Dr. D. F. McGuire be appointed Associate Professor of Ophthalmology and Otology at \$400 per year.

At the conclusion of the reading of the report, and on motion of Regent Grosvenor, the report was adopted by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

The following resolution, submitted by Regent Shearer was adopted unanimously:

Resolved, That the honorary degree of Doctor of Laws be and is hereby conferred upon Henry Simmons Frieze of Ann Arbor.

The following resolution, submitted by Regent Grosvenor, was adopted unanimously:

Resolved, That the honorary degree of Doctor of Philosophy be and is hereby conferred upon Willoughby Dayton Miller, A. B., Professor in the Royal Institute of Dentistry, in the University of Berlin, Germany.

The following resolution submitted by Regent Van Riper was adopted unanimously :

Resolved, That the honorary degree of Mechanical Engineer be and is hereby conferred upon Mortimer E. Cooley, Assistant Engineer U. S. N.

The following resolution submitted by Regent Grosvenor was adopted unanimously :

Resolved, That the honorary degree of Master of Pharmacy be and is hereby conferred upon Henry B. Parsons, Ph. C., of New York City.

Regent Van Riper presented and read the report of the Demonstrator of Anatomy, which, on motion, was ordered placed on file.

On motion of Regent Grosvenor the salary of Dr. O. F. Chadbourne, Resident Physician and Surgeon in the University Hospital, was fixed at six hundred and fifty dollars (\$650) for the next year by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

Regent Van Riper presented the report of the Hospital Surgeon which was placed on file.

The following resolution submitted by Regent Shearer was adopted :

Resolved, That the title of Clarence G. Taylor be changed from Assistant in Mechanical Engineering to Superintendent of the Mechanical Laboratory under the direction of Professor M. E. Cooley.

Regent Van Riper presented and read the following communication :

To the Honorable Board of Regents of the University of Michigan.

In accordance with your request made at your last meeting I present in writing the most urgent needs of the Museum of Zoology and Ethnology of the University.

1st. A box of valuable skins was sent to Prof. Ward, of Rochester, in April, 1884, with the consent of the Auditing Board, for his estimate of their value and cost of mounting. Without orders from us, and through his mistake or that of his employees, the skins were mounted and forwarded to

us. They are very fine specimens, and I ask that Prof. Ward's bill of \$125.00 be paid.

2d. I ask that the part of the elevator shaft on the second floor be cut off and made into a case for the vertebrate skeletons. This will liberate the case now containing the skeleton of the camel, and will allow me to complete the arrangement and classification of the birds in the museum. The estimated cost of this work is \$50.00.

3d. There is also need of a case for the ungulate mammals, of the same height and length as the other cases on the second floor, but of double width, so that it may contain the bison and other large animals. This will allow me to complete the arrangement of the mammals. The estimated cost of such a case is \$150.00.

4th. The third floor in the north wing is without cases, and if a beginning could be made this summer I could fill two or three cases with invertebrate collections not now displayed.

I am anxious to put the Museum in as good order as possible before the meeting of the American Association and shall remain here during the summer for that purpose.

Respectfully,

J. B. STEERE,

Professor of Zoology.

Regent Van Riper submitted the following resolution which was adopted :

Resolved, That the above matters be referred to the Auditing Board with authority, if deemed proper, to pay the bill of Prof. Ward and to do such work as is asked if in their judgment deemed advisable.

Regent Grosvenor moved that the salary of Dr. J. Taft, Dean of the Dental Department, be increased to \$2,200, and that the salary of Dr. J. A. Watling be increased to \$2,000.

The motion of Regent Grosvenor was carried by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

Regent Grosvenor submitted the following resolution, which on motion of Regent Willett was adopted.

Resolved, That the Auditing Board be authorized to make such contracts with the Matrons of the Hospital for the board of patients as is just to the patients and for the best interests of the University, and that they report their action to the Board.

On motion of Regent Grosvenor the salary of John Butler was increased to \$600 by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, and Willett.

Nays—None.

Regent Willett submitted the following resolution:

Resolved, That after the first day of October next the salary of all the janitors shall be four hundred and fifty dollars per year.

The resolution of Regent Willett was adopted by the full vote of the Board.

On motion of Regent Van Riper all matters relating to janitor work in the museum were referred to the Auditing Board for adjustment.

Regent Grosvenor moved that when the Board adjourns it be to Monday evening, August 24th. The motion prevailed.

On motion of Regent Blair the Board adjourned to 9 o'clock to-morrow morning.

MORNING SESSION.

THURSDAY, JUNE 25, 1885.

The Board of Regents reassembled in the room of the President at 9 o'clock a. m.

Dr. Watling being present addressed the Board in relation to his salary as Professor in the Dental Department.

Regent Duffield submitted the following resolution:

Resolved, That Miss Ida Ann Morrish be appointed Assistant in charge of the Catalogue and the clerical work in the General Library at a salary of \$500 per year.

The above resolution was concurred in by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, and Willett.

Nays—None.

On motion of Regent Grosvenor the following appointments were made in the University Hospital:

D. W. Steiner, Ward Master, at a salary of \$300 per year;
 Charles Stewart, Nurse, " " " " " "
 Miss Sarah V. Beal, Nurse, " " " " " "
 Miss H. A. Bruster, Nurse, " " " " " "

The vote on the above appointments was unanimous.

On motion of Regent Van Riper, Dr. T. J. Sullivan was appointed assistant to the Chair of Surgery, Dr. O. F. Chadbourne assistant to the Chair of Practice and Pathology, Dr. A. G. Oven assistant to the Chair of Materia Medica, Dr. J. A. Martin assistant to the Chair of Obstetrics and Diseases of Women and Children, and Dr. H. K. Lum assistant to the chair of Physiology, in the Medical College, at salaries of \$100 each.

The vote on the above appointments was unanimous.

Regent Blair presented and read the following communication:

DETROIT, June 24, 1885.

To the Board of Regents of the University of Michigan:

GENTLEMEN:—In pursuance of the understanding which I had last year I now desire to renew my resignation of my Professorship in the Law Department. Repeating my thanks for your continued kindness, I am,

Yours very respectfully,

JAMES V. CAMPBELL.

At the conclusion of the reading of the communication from Judge Campbell Regent Blair submitted the following resolution, which was adopted unanimously:

Resolved, That this Board has received with deep regret the resignation of Hon. James V. Campbell, Marshall Professor of Law, whose long and distinguished service both in the University and on the Bench of the highest court of the State, has rendered his name illustrious wherever the Common Law is studied and received.

In accepting the resignation of Judge Campbell, which we

understand to be founded upon imperative reasons on his part, we desire to tender to him the earnest thanks of this Board for the uniform zeal and courtesy with which his whole service in the University has been characterized.

On motion the Board adjourned to 12:30 p. m. to attend commencement exercises.

AFTERNOON SESSION.

At 12:30 o'clock they convened, and on motion of Regent Duffield adopted a vote of thanks to Dr. S. L. Caldwell, President of Vassar College, for his scholarly and eloquent commencement address, and requested a copy for publication.

The Board then adjourned to Monday, August 24th, at 7:30 o'clock.

JAMES H. WADE,
Secretary.



ADJOURNED MEETING.

AUGUST, 1885.

UNIVERSITY OF MICHIGAN,
Monday, August 24th, 1885. }

The Board of Regents assembled in the room of the President at 7:30 o'clock p. m., pursuant to adjournment.

Present—The President, Regents Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

The President placed in the hands of appropriate committees sundry papers which had come into his hands.

The President presented the following report of the action of the Executive Committee :

UNIVERSITY OF MICHIGAN,
August 24, 1885. }

The Executive Committee beg leave respectfully to report that on June 29th they appointed William A. Campbell, M. D., Secretary of the Faculty of the Department of Medicine and Surgery, at a salary of \$100 a year, in place of George A. Hendricks, M. D., resigned.

JAMES B. ANGELL,
AUSTIN BLAIR,
E. O. GROSVENOR.

Dr. Morse, of Detroit, being present, addressed the Board on the needs of the Department of Mechanical Dentistry.

The President presented a request, signed by Dr. George and others, asking that University Hall might be used next summer for three evenings for concerts to be given by a convention of musical societies, which are to meet in Ann Arbor. The subject was referred to the Committee on Buildings and Grounds.

On motion of Regent Grosvenor the Board went into executive session.

Regent Willett submitted the following resolution concerning a bill for furniture for the Dental College, which was adopted by the full vote of the Board.

Resolved, That the bill of Messrs. Keck & Co. be rejected, it being incurred without authority of the Auditing Board.

Professor M. L. D'Ooge having been tendered the Directorship of the American School at Athens, Greece, for the College year of 1886-7, submitted the matter to the Board for their consideration. He explained fully the workings of the School, and the interest the University of Michigan had in the same, and then asked the Board to determine the matter of acceptance as they should deem wise. Whereupon Regent Van Riper submitted the following resolution :

Resolved, That the Board hereby signifies its consent that Prof. D'Ooge may accept the Directorship of the American School of Archæology at Athens, in Greece, for the University year of 1886-7, and that his salary during that time be paid to him as if in the service of the University here.

The above resolution was adopted by the following vote :

Ayes—Regents Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

The President presented and read the following communication from Professor Chas. K. Wead :

ANN ARBOR, Aug. 24, 1885.

To the Honorable Board of Regents :

GENTLEMEN: I hereby tender my resignation of my position to take effect October 1st next. This action is due partly to the inadequacy of the salary I am receiving and partly to family matters.

I am Yours Respectfully,

CHARLES K. WEAD,

Acting Professor of Physics.

On motion of Regent Van Riper the resignation of Professor Wead was accepted.

On motion of Regent Van Riper the subject of filling the Chair of Professor of Physics made vacant by the resignation of Prof. Wead was referred to the Executive Committee with power to act.

On motion of Regent Grosvenor the Board took a recess to 8:30 Tuesday morning.

MORNING SESSION.

TUESDAY, AUG. 25, 1885.

The Board reassembled at 8:30 o'clock A. M. Regent Duffield having arrived the full Board was present, except Regent Joy.

On motion of Regent Blair the Board went into executive session.

The President submitted and read the following communication from Professor C. K. Adams :

ITHACA, July 21, 1885.

DEAR SIR: Having this day accepted the Presidency of Cornell University, I hereby tender through you to the Honorable the Regents of the University of Michigan my resignation of the position of Professor of History and Dean of the School of Political Science. In thus severing my connection with the institution of learning with which I have had an uninterrupted connection during twenty-eight years, I wish to thank the President and the Regents for the uniform courtesy and consideration with which all of the measures I have had occasion to recommend have been received. I carry away from the University of Michigan an affectionate regard for all the officers and students, and whatever of success I may have in my new and more responsible duties I shall attribute it chiefly to my observation and experience in the service of my *Alma Mater*. Hoping for the University even greater prosperity in the future than it has had in the past, I have the honor to be your obedient servant,

C. K. ADAMS.

To J. B. ANGELL, LL. D.,

President University of Michigan.

Regent Blair submitted the following resolution, which was adopted unanimously :

Resolved, That the resignation of Prof. Charles Kendall Adams, dated at Ithaca, N. Y., on July 21, be placed on file, and the same is hereby accepted.

Resolved, That in accepting the resignation of Prof. Adams, the Board desires to congratulate him upon his well deserved nomination to the high and responsible office of President of Cornell University, and also to recognize fully the great obligation of this University to him for his long and faithful service here, and also to wish him in future that large measure of success which his great abilities and eminent position seem surely to promise.

Regent Van Riper submitted the following resolution:

Resolved, That Thomas M. Cooley, LL. D., be and hereby is elected Professor of History and Dean of the School of Political Science, at a salary of \$2,200 ; it being understood that it shall be a part of his duty to give a course of lectures on Constitutional Law to be attended by the law students, and the students of the School of Political Science.

The above resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

The following communication from Professor Demmon was read by Regent Duffield :

ANN ARBOR, MICHIGAN, August 22, 1885.

To the Honorable, the Board of Regents :

GENTLEMEN.—The Shakespearian Library collected by Mr. Joseph Crosby, of Zanesville, Ohio, has passed into the hands of his creditors and will be put to sale as soon as a catalogue can be printed. The present owners have asked me to make the catalogue, and I have been to Zanesville and taken memoranda for the work.

While going through the collection I found three hundred and six volumes and one hundred and nineteen pamphlets and leaflets that are wanting in the McMillan Shakespeare Library. Many of these are of great rarity and intrinsic value. It would cost much labor, extending over many years, to get them together again. It is certain that a few of them could never be duplicated. It occurred to me that these titles should in some way be added to our collection ; and I accordingly obtained permission to have the books

packed separately to await negotiations with the University. A carefully itemized estimate of the value of the whole is herewith submitted.

Mr. Crosby has the reputation of being, as Mr. Hudson puts it, "one of the three Shakespearians in an eminent sense" in this country. Both Hudson and Furness make frequent use of his textual criticisms in their editions of Shakespeare. He is favorably known to the Shakespearians of England and Germany. He has devoted upwards of forty years to the collection and study of his library. Many of the volumes have valuable manuscript notes in his handwriting. There are also many "author's copies," and some manuscripts, autographs, etc., which are, of course, unique.

My reason for bringing the matter to your notice at this time is, that these books must be secured at once if at all. There is a chance that the Library will be sold in bulk after the catalogue is made. We should then lose the opportunity to get anything. In case the Library should be dispersed at auction, we should certainly lose some of the rarest and most desirable volumes through sharp competition. We should also, have to pay a commission for buying. Furthermore, the matter must be decided now, because otherwise the titles will have to enter into the printed catalogue and cannot afterwards be withdrawn.

Our Shakespeare collection is one of the chief glories of the University. Its working value, both for our undergraduates and for the special student, would be materially increased by the addition now contemplated. The opportunity to make such an addition at one time will probably never again occur. After mature deliberation, it has seemed to me that the opportunity ought not to be lost, and that these books ought to be secured even at the cost of some inconvenience. Accordingly, after conference with the President, I have ventured, with his approval, to lay the matter before your honorable body, leaving the decision to your wisdom and discretion.

ISAAC N. DEMMON,

Professor of English and Rhetoric.

Regent Van Riper submitted the following resolution :

Resolved, That the Auditing Board are hereby authorized to purchase as an addition to the McMillan collection, the Shakespearian volumes and pamphlets now in the library of Joseph Crosby, and catalogued by Prof. Demmon and not now in our library ; and that there be appropriated for that purpose from the library fund the sum of \$476.50.

Pending action on the above resolution Regent Blair submitted the following preamble and resolution, which on motion of Regent Willett was adopted.

WHEREAS, The library fund is very much reduced in amount and can hardly spare the sum necessary to purchase the valuable works mentioned in the foregoing resolution, yet appreciating the importance of making complete the McMillan collection,

Resolved, That the above resolution be referred to the ex-

ecutive committee with power to act, upon the approval of the library committee of the Faculty.

The Committee on Buildings and Grounds made the following report :

The Honorable, the Board of Regents :

GENTLEMEN.—The Committee on Buildings and Grounds to whom was referred the matter of the water supply for the University, would report that the Ann Arbor Water Company have submitted proposals as follows, viz :

ANN ARBOR, MICH., }
August 24, 1885. }

To the Board of Regents of the University of Michigan :

GENTLEMEN—The Ann Arbor Water Company desire to submit the following propositions :

1st. The Ann Arbor Water Company will furnish, put in, and maintain the six inch water pipes and put in three fire hydrants according to the annexed plan and maintain the same, also connect their pipes with the water pipes already laid in the University grounds (the University to keep in repair the pipes already laid), the Board of Regents to grant to said Company the right to lay said pipes and retain the ownership of the pipes so laid. And the Water Company will furnish a sufficient and suitable supply of good water for all the departments of the University, granting to the University the privilege of establishing a Mechanical Laboratory, to be supplied with water at any time when the University may choose to establish the same, without additional cost, and provided further that should more than the Mechanical Laboratory department be added to the University, the water for those in excess of what are now on the grounds shall be paid for pro rata in proportion to the amount used by them. The supply of water to be kept by said Company sufficient for fire and all other purposes (unavoidable accidents excepted). And in case of unavoidable accidents by which the supply of water is cut off for more than three days, no charge shall be made by said Company for water during the time the water is not supplied. For such continuous service of water for fire and all other purposes, the University of Michigan shall pay six hundred dollars per year to said Ann Arbor Water Company payable quarterly in advance. This proposition is not to include Society Houses or buildings outside of the grounds. The water is not to be allowed to run to waste or to be used for motive power except when generated into steam.

2d. If the University will furnish, put in, and maintain the pipes and five hydrants, the said Company will make the price five hundred dollars per year.

3rd. The Ann Arbor Water Company will furnish and put in the pipes and three fire hydrants for the sum of eleven hundred dollars, the estimated cost as given by Prof. Charles E. Greene.

4th. The Ann Arbor Water Company will furnish the University for its use free of cost the pump which said Company is now using at its works from the time the University opens until such time as the said Company shall have its works complete and be in all respects ready to carry out this proposition by furnishing water to the University. This contract is to continue for thirty years.

Respectfully submitted,

The Ann Arbor Water Company, by Alex. W. Hamilton, their Attorney.

The above proposals are based on the supposition that the average daily use of water amounts to 1,000 barrels. But there is no certain information within reach as to the quantity of water heretofore used daily, or of the expense of procuring it. And in view of a contemplated contract to exist during thirty (30) years, your committee feel the necessity of more accurate information as to the quantity of water used and the cost of the service.

Your committee must therefore recommend that for at least six months the present means of procuring the supply of water be continued. And that great care be taken in the meantime to gain as accurate information as practicable as to the quantity of water required and the cost of the service. We would also recommend that a new pump be procured by the Auditing Board.

JAMES SHEARER,

E. O. GROSVENOR.

On motion of Regent Blair, the report of the Committee on Buildings and Grounds was accepted and adopted.

Regent Shearer, Chairman of the Committee on Buildings and Grounds submitted the following report and recommendation :

To the Honorable Board of Regents:

GENTLEMEN—The Committee on Buildings and Grounds, who were directed at your last meeting to take all necessary

measures to procure a design, etc., for the proposed Engineering Laboratory building, and to receive proposals for said building, would report that they committed the furnishing of the design to Gordon W. Lloyd, architect. And that on the 10th day of August they directed advertisements to be made for proposals for building to be received at your office until the 24th day of August at noon. At that time your committee received five proposals as follows, viz :

Wm. Biggs.....	\$12,326
Dean Bros.....	12,145
George Scott.....	9,973
Daniel J. Ross.....	9,584 34
J. L. Gearing & Sons.....	9,387

Your committee therefore recommend that the contract be awarded to Messrs. J. L. Gearing & Sons, of Detroit, Mich., conditioned on their executing a contract and bond satisfactory to the Committee on Buildings and Grounds.

On motion the report was accepted and the recommendation of the Committee was adopted by the full vote of the Board.

Regent Shearer submitted the following resolution :

Resolved, That as the proposal of J. L. Gearing & Sons, of Detroit, is the lowest received for the building for the use of the Engineering Laboratory, the President and Secretary of the Board of Regents be and are hereby directed to make a contract in the name of the Board of Regents with the Messrs. Gearing ; provided, however, that the Committee on Buildings and Grounds first approve the said contract, and of the sufficiency of a bond for three thousand dollars to ensure the faithful performance of the contract.

The above resolution was adopted by the following vote :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

The following resolution submitted by Regent Shearer was adopted :

Resolved, That the Committee on Buildings and Grounds be and are hereby directed to act for the Board of Regents in all matters connected with the erection of the building for the

Engineering Laboratory, and to take full charge of said building in all of its processes of construction and completion, and with the President and Secretary of the Board to make vouchers for the monthly payments under the contract.

The following resolution was submitted by Regent Shearer, Chairman of the Committee on Buildings and Grounds:

Resolved, That Prof. M. E. Cooley be and hereby is appointed Superintendent of the proposed building for the Engineering Laboratory, and that he be required to give such portion of his time as will not interfere with his duties as Professor of Mechanical Engineering as will insure a faithful performance of the contract—and that he discharge such other duties as may be directed by the Committee on Buildings and Grounds. It is further

Resolved, That this appointment shall commence from the first operations of the contractors on the grounds, and continue during the active processes of the several works, and that the compensation shall be at the rate of fifty dollars per month.

The above resolution was adopted by the following vote:

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

The following resolution of thanks was submitted by Regent Shearer, and adopted by the unanimous vote of the Board:

Resolved, That the thanks of the Board be conveyed by the Secretary to the Ingersoll Rock Drill Company of New York, for the rock drill which they have kindly placed in the Department of Mechanical Engineering for purposes of instruction.

Regent Willett submitted the following resolution:

Resolved, That the salaries of the present Professors in the Law Department be fixed for the ensuing year at twenty-two hundred dollars.

A call vote being taken on the above resolution resulted as follows:

Ayes—Regent Willett.

Nays—Regents Duffield, Van Riper, Grosvenor, Blair, and Clark.

The following resolution was introduced by Regent Blair :

Resolved, That the salaries of Professors in the Law Department be continued as they now stand for one year, except that the salaries of Professors Rogers and Hutchins be increased to \$1,800 each for this year.

The vote on the above resolution resulted as follows :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

Regent Grosvenor submitted the following resolution :

Resolved, That the Executive Committee be and are hereby authorized to employ an instructor in Biology at a salary not exceeding \$900 per year.

The vote on the resolution of Regent Grosvenor was as follows :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

Regent Shearer moved that the salary of Doctor W. H. Dorrance be increased to \$1,600. Upon which a vote was taken resulting as follows :

Ayes—Regents Duffield, Van Riper, Grosvenor, Shearer, Blair, Clark, and Willett.

Nays—None.

The President presented and read the following communication :

Hon. James B. Angell, President Michigan University, Ann Arbor.

DEAR SIR.—In compliance with the request of yourself and Prof. Frieze, I take great pleasure in presenting through you to the University, a portrait of Mr. Bagley. He loved Michigan and her institutions, none more than the one over which you so ably preside.

Yours very sincerely,

FRANCES E. BAGLEY.

DETROIT, August 24th, 1885.

The following resolution submitted by Regent Blair, was adopted unanimously :

Resolved, That the Board of Regents acknowledge with great satisfaction the receipt of the portrait of the late Governor John J. Bagley, and they tender the thanks of the University to Mrs. Frances E. Bagley, for the most acceptable present of the same.

On motion of Regent Blair, the Board adjourned.

JAMES H. WADE,

SECRETARY.



OCTOBER MEETING.

1885.

UNIVERSITY OF MICHIGAN,
Tuesday, October 13, 1885. }

The Board of Regents assembled in the room of the President, at 7:30 o'clock P. M.

Present: The President, Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark, and Willett.

Absent; Regent VanRiper.

The meeting was called to order and opened with devotional exercises by the President.

The President stated that he had received several communications, which he desired to present to the Board, and suggested that the papers be received and referred to appropriate Committees. Agreed to.

On motion of Regent Grosvenor, the minutes of the last meeting were approved as printed.

The President stated that Mr. E. D. Kinne was in waiting, and desired to be heard in relation to the claims of Mrs. McManus, for unpaid board bills, due to her as former matron of the University Hospital.

On motion of Regent Willett, Mr. Kinne was invited to address the Board on this claim, after which the matter was fully discussed, and on motion of Regent Joy, was laid on the table for the present.

The President presented the following report of the action of the Executive Committee:

To the Honorable Board of Regents:

The Executive Committee beg leave to report that in September they met and appointed Howard Ayers, Ph. D., Instructor in Zoology for one year, at a salary of \$900; and (on the recommendation of the Law Committee) Jerome C. Knowlton, A. B., Assistant Professor of Law for one year, at a salary of \$1,200; and invited Professor Harrington to give the instruction in Physics during the first semester on his regular salary.

JAMES B. ANGELL,

For the Committee.

On motion of Regent Shearer, the report just read was accepted and adopted by the following vote:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett. Nays—None.

Regent Duffield presented and read the following report of the Library Committee of the Literary Faculty:

UNIVERSITY OF MICHIGAN, }
October 10th, 1885. }

To the Honorable Board of Regents:

The Library Committee to whom was referred by you for consideration, the proposition to purchase a part of the Shakespeare Library of Joseph Crosby, of Zanesville, O., beg leave to report as follows:

Soon after the proceeding of the Board were published in the newspapers, several friends of the University evinced in a gratifying manner their disposition to aid, if necessary, in securing this very desirable addition to the McMillan Shakespeare Collection. One of our recent graduates sent his cheque for \$500, the sum then deemed necessary for the purchase. But Mr. James McMillan, on hearing of our opportunity to purchase this choice collection, with his characteristic generosity, promptly authorized us to draw on him for the amount required, which proves to be \$552. The books are daily expected. This addition carries the number of volumes in the McMillan Collection up to about 3,000, and greatly enhances its value.

Your Committee are gratified to add that the young graduate, who sent his cheque for \$500, on hearing of Mr. McMillan's action, at once authorized President Angell and Professor Demmon to purchase three suitable engravings for the seminary room, which the advanced students of English Literature occupy, and to expend the money remaining in purchasing works of English Dramatic Litera-

ture. The engravings have already been procured. This liberal and modest giver prefers that his name should not be made public.

Adopted by the Library Committee, October 10, 1885.

R. C. DAVIS,

Sec. ex-officio.

For the Committee:

J. B. ANGELL,

Chairman.

On motion of Regent Duffield, the foregoing report was accepted and adopted, and the President was requested to transmit to Mr. James McMillan and the "unknown donor" the cordial thanks of the Board for their generous gifts.

The following communication was received at the last meeting of the Board, and referred to the Committee on Buildings and Grounds:

To the Honorable Board of Regents of the University of Michigan:

GENTLEMEN,—There exists in this State a society known as the "Peninsular Saenger-Bund" composed of German Singing Societies from Detroit, Jackson, Bay City, East Saginaw, Saginaw City, Grand Rapids, Lansing, and Ann Arbor. The Saenger-Bund holds one festival every second year, which is patronized by the German citizens from all parts of this State.

At the last meeting held in East Saginaw, in August, 1884, all the Societies and friends of the Saenger-Bund, expressed the desire of having the festival of 1886 held in the University City, for the Germans wanted an opportunity of seeing the State University. These concerts are generally patronized by 2,000 to 3,000 or more persons from all parts of the State.

At a meeting of citizens of Ann Arbor, it was decided to accept the festival of August, 1886, for Ann Arbor, and the undersigned were appointed a Committee to petition your Honorable Body for the use of University Hall for three concerts in August, 1886.

The Hall will not be used for any other purpose and will be returned in proper condition. The granting of the Hall can only result in good for the institution, for many will come and see it and carry home their opinion of the University.

PAUL GEORGE STUEKEY,

Secretary.

GEO. HALLER.

S. S. BLITZ.

C. GEORGE.

J. F. SCHUH.

HERMANN HUTZEL.

Regent Shearer, Chairman of Committee on Buildings and Grounds, submitted the following report and recommendation:

The Honorable the Board of Regents:

GENTLEMEN,—The Committee on Buildings and Grounds, to whom was referred the petition of the Peninsular Saenger-Bund, for

the use of University Hall for three concerts to be given in August, 1886, would report and recommend as follows, viz.:

As the proposed use of the Hall would be in the vacation, and believing a better knowledge of the magnitude and facilities of the University by our citizens to be greatly for the interests of the University, your Committee would recommend that the use of the Hall be granted as above, conditioned on the expenses for gas and cleaning being paid, and that any damage to the building or premises be made good.

JAS. SHEARER,
Chairman.

The report of the Committee on Buildings and Grounds was accepted, and the recommendation therein contained was adopted by the full vote of the Board.

The President stated that his annual report had been prepared, and was held subject to the pleasure of the Board. Regent Grosvenor moved that the report be read by the President. The motion prevailed.

PRESIDENT'S REPORT.

To the Honorable Board of Regents:

I beg leave to submit my report for the year ending September 30th, 1885.

The following changes have occurred in the Faculties:

Owing to the illness of Professor Wilson of the Homœopathic Medical College at the opening of the University year, the duties of his chair were performed for three weeks by Dr. Long, of Ionia. It being found impracticable for him to favor us with his services longer, Dr. John F. Brown, of Jackson, was appointed in his stead Lecturer for the year.

In June, 1885, Instructors B. L. D'Ooge, A. M., H. H. Kingsley, A. B., and John Dewey, Ph. D., were reappointed for one year; Henry Wade Rogers, A. M., Tappan Professor of Law, was appointed also Professor of Roman Law in the School of Political Science; Mortimer E. Cooley, Assistant Engineer, U. S. N., who had been detailed by the Navy Department to give instruction here for a limited period, re-

ceived the permanent appointment of Professor of Mechanical Engineering; Arthur W. Burnett, A. B., was appointed Instructor in English and in German for one year; James N. Martin, Ph. M., M. D., was chosen Lecturer on Oral Pathology and Surgery in the Dental College; the title of Clarence G. Taylor, B. S., was changed from Assistant in Mechanical Engineering, to Superintendent of the Mechanical Laboratory, and that of Assistant Professor Charles S. Denison, M. S., C. E., from Assistant Professor of Mechanical and Free Hand Drawing, to Professor of Descriptive Geometry, Stereotomy, and Drawing; and the following appointments were made to complete the Faculty of the Homœopathic Medical College: Hugo R. Arndt, M. D., Professor of Materia Medica, James C. Wood, M. D., Professor of Obstetrics and Diseases of Women and Children, and David F. McGuire, M. D., Associate Professor of Ophthalmology and Otology.

The resignation of Hon. James V. Campbell, Marshall Professor of Law, was for the second time presented and reluctantly accepted.

In August, the resignation of C. K. Wead, Acting Professor of Physics, and that of Charles K. Adams, Professor of History and Dean of the School of Political Science, were tendered and accepted; and Hon. Thomas M. Cooley was elected Professor of History and Dean of the School of Political Science.

Mr. Wead has given nine years of faithful service to the University. It may be hoped that the exigencies of business affairs, which call him away for a time from his scientific work, will not prevent him from resuming at an early day the studies and investigations in physics, for which his attainments and abilities so eminently fit him.

Dr. Adams resigned his chair to accept the honorable appointment of President of the Cornell University. He has spent all the years of his manhood under the roof of this Institution. Having graduated here in 1861, he has since then

been constantly in the service of the University. Since 1867 he has filled the chair of History. It is not too much to say that he has brought his department of work to the very front rank, while by his writings he has gained a wide reputation as a scholar. By his large study of educational problems and his broad views of University work, he has contributed his full part to the development of this University and has thus fitted himself for the large responsibilities which are now laid upon him. He carries with him the best wishes of his former associates for his success in his new field, and for the prosperity of the great institution over which he is called to preside.

It is with the sincerest regret that the University sees Judge Campbell terminate all official connection with us. Only one other man living was at so early a date in her service, and no one has ever served her more faithfully. In 1841, the year in which the University was opened for the reception of students, he was made Secretary of the Board of Regents, and he discharged the duties of that office until 1845. In 1859, on the organization of the Law Department, he was appointed to the chair, which he has now resigned after twenty-six years of labor. To his affluent learning, his wide reputation as a jurist and a scholar, and his great attractiveness as a teacher and a man, the Law School owes no small degree of its success. His interest in all departments of the University was so generous, and his companionship was so cherished by the members of all our Faculties, that his withdrawal will be felt throughout the University.

It is the cause of deep gratification to the whole University, that Judge Cooley, whose resignation was so regretted last year, has consented to rejoin us for a time at least, and give instruction in the Literary Department, in Constitutional History and Political Science, and in the Law School in Constitutional Law.

In September the Executive Committee appointed Howard Ayers, Ph. D. Instructor in Zoology for one year, and

Jerome C. Knowlton, A. B., Assistant Professor in the Law School for one year, and invited Professor Harrington to give the instruction in Physics during the first semester.

The degrees conferred were as follows:

DEGREES ON EXAMINATION.

Bachelor of Letters.....	11
Bachelor of Science (Mechanical Engineering).....	1
Bachelor of Science (Civil Engineering).....	6
Bachelor of Science.....	7
Bachelor of Philosophy.....	16
Bachelor of Arts.....	37
Master of Letters.....	1
Mechanical Engineer.....	1
Master of Science.....	1
Master of Arts.....	6
Doctor of Medicine (Department of Medicine and Surgery)....	80
Bachelor of Laws.....	136
Pharmaceutical Chemist.....	26
Doctor of Medicine (Homœopathic College).....	6
Doctor of Dental Surgery.....	28
	<hr/>
	363

HONORARY DEGREES.

Master of Pharmacy.....	1
Mechanical Engineer.....	1
Doctor of Philosophy.....	1
Doctor of Laws.....	1
	<hr/>
Total.....	367

The number of students in attendance was as follows:

DEPARTMENT OF LITERATURE, SCIENCE, AND THE ARTS.

Resident Graduates.....	15
Candidates for a Degree.....	443
Students not Candidates for a Degree.....	66 — 524

DEPARTMENT OF MEDICINE AND SURGERY.

Third Year Students.....	84
Second Year Students.....	118
First Year Students.....	132 — 334

DEPARTMENT OF LAW.

Seniors.....	143
Juniors.....	119 — 262

SCHOOL OF PHARMACY.

Resident Graduates.....	4
Second Year Students.....	30
First Year Students.....	27 — 61

HOMŒOPATHIC MEDICAL COLLEGE.

Students—Total in the College.....	34
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COLLEGE OF DENTAL SURGERY.

Students—Total in the College.....	80
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 1295

Compared with the preceding year there was a decline in attendance in every Department except in the Dental, where there was a slight gain. There can be no doubt that the decline was largely due to business depression. We knew of many who had completed their preparatory studies with the intention of coming, but who found themselves at the opening of our Academic year unprovided with the necessary means to meet even the small expense of a student's life here. This year opens with every prospect of a large increase in attendance.

The number of women in the University was 196, being 16 more than in the preceding year. They were distributed in the several Departments as follows:

Department of Literature, Science, and the Arts.....	119
Department of Medicine and Surgery.....	56
Law Department.....	2
School of Pharmacy.....	1
Homœopathic Medical College.....	10
College of Dental Surgery.....	8

 196

The number of women was 15 per cent. of the total attendance, while in the previous year it was only 13 per cent.

The principal part of the increase in the attendance of women was in the Department of Medicine and Surgery.

As usual our students are drawn from every part of this land and from several foreign lands. The fact that we are instructing so many students, whose home is not in Michigan, often calls out the suggestion that a State Institution like this ought to charge higher fees than it does for such persons, and so increase its resources. This seems so plausible that it may be well to give the subject a little consideration.

It seems not to be understood by all that an important discrimination is now made between the fees of Michigan students and those of non-resident students. The charges are as follows: For admission, to Michigan students ten dollars, to all others twenty-five dollars; the annual fee for the Literary Department, for Michigan students twenty dollars, for all others thirty dollars; in all other Departments, for Michigan students twenty-five dollars, for all others thirty-five dollars. We may say with approximate accuracy that the fees for non-resident students are about fifty per cent. greater than those for Michigan students.

Furthermore, it is understood by very few outside of the University, that when instruction is given by lectures, as it is mainly in the Professional Schools and to some considerable extent in the Literary Department, the attendance of the non-resident students adds little or nothing to the expense of instruction, and therefore the fees received from them are almost clear gain to the Treasury. One may lecture to four hundred students from several States as easily as to one hundred from Michigan alone. During a large part of the history of the Law School the fees from non-resident students alone in that school have more than paid the current expenses of it. It so happens that the proportion of non-resident students in the Professional Schools is much larger than in the Literary Department, being 60 per cent. in the former and 40 per cent. in the latter.

Having regard simply to the pecuniary advantage of the University, the policy of the Regents should be to make the fees of non-resident students as high as possible without diminishing materially the number. They might be fixed so high as to cut off attendance from other States. For it must be remembered that in the Western States, from which we draw most of our non-resident students, education is furnished by good Colleges and State Universities at very low rates. In some of them there is no charge for tuition. The fees have been raised in this University twice in the last eight years. In 1877 the annual fee and the diploma fee were each increased five dollars. In 1882 the annual fee for non-resident students in the Literary Department was again increased five dollars and in the Professional Schools ten dollars. The fees exacted of students from other States are now larger than they are in several prominent western institutions.

Now we are confronted with the rather unwelcome fact, that since the last increase in the fees in 1882 the number of non-resident students has rapidly and steadily decreased, while the attendance of Michigan students has been very steady, as the following table will show:

ATTENDANCE OF STUDENTS.

Year.	From Michigan.	Non-Residents.	Total.
1881-2	688	846	1534
1882-3	671	769	1440
1883-4	670	707	1377
1884-5	644	651	1295

The annual fees due from non-resident students in 1881-2 were \$21,100, while under the higher rates now asked they amounted in 1884-5 to only \$21,800. If there is no other cause than the increase of fees operating to diminish the attendance of students from abroad, it is obvious that little has been gained by that increase.

There can be no doubt that other causes are co-operating with this. The institutions, especially the State Universities, in the Western States, have been enlarging their Faculties and

improving their instruction, so that students find near their own homes the education they seek. The lengthening of terms in our Professional Schools, especially in the Law School, and the depression in business for the past two years have also had their effect. But I think the figures do show conclusively that even on pecuniary grounds we cannot now afford to increase our charges to non-resident students.

I need hardly say that, for the advantage of the Michigan students themselves and for the reputation and usefulness of the University, it is in the highest degree desirable that it continue to attract students from every part of this country and from foreign lands. One of the most valuable elements in the education of every student who comes here is found in the opportunity and the necessity of mingling with associates from all parts of the world. It would be a great weakening of our strength and of our influence, if the cosmopolitan character of the University community should be exchanged for a narrow and local character. I believe that the State is as proud as we are of the power which the University has had from its early days to attract so many students from distant homes, and would regret the adoption of any policy which should practically limit its constituency to our own State.

I cannot speak too warmly of the earnest, manly and studious spirit which has pervaded the University in recent years. I believe that the Professors in the Literary Department are agreed in the opinion that the introduction of the elective system into the last two or two and a half years of the collegiate courses has contributed much to this result. There has been in years past much indiscriminating criticism by some ultra-conservative college officers in the east of any attempt at modifying the old iron-clad curriculum. But it is noteworthy that the very colleges which have been the sources of this criticism are themselves introducing the elective system into the latter half of the course. The commendations of it, which the men who have so stoutly opposed it are now forced to make in justification of the change, form interesting read-

ing to those of us who have long believed that there was no solution of the problem of meeting the demands properly made on American colleges, save by introducing some flexibility into the old traditional curriculum. The fear often expressed that students will generally abuse or unwisely use the liberty granted them of choosing to some extent their studies has not been shown by our experience to be well founded. Doubtless a few indolent persons will elect what they regard as easy work. But they will even then accomplish as much as they do when forced to attempt hard work, which they never perform, except in the most perfunctory manner. No plan will make the college career of lazy men brilliant. The advantage to industrious men of generous liberty of choice of studies, after they have made a fair advance in fundamental and elementary studies, is very pronounced. And the work of a college should be organized to meet the needs of the earnest and aspiring students rather than the infirmities and defects of the indolent.

It will be remembered that last year we decided to extend to schools outside of Michigan, on the same conditions as those imposed on Michigan schools, the privilege of sending students here to be received without examination. Schools in New York, Illinois, Minnesota and California, have already availed themselves of the privilege. We are still confident that this enlargement of our plan of accepting students "on diploma from those approved schools," which we have carefully inspected, will work no harm to Michigan schools and will be of advantage to the University. We have reason to believe that several important preparatory schools in other States will soon establish this connection with us.

Special attention has been given during the past year to enlarging the facilities for shop-work needed by our students of engineering. As only about one-third of the number who desire to take such work could be accommodated by us, we asked the Legislature for an appropriation for a larger building and for more machinery. Though the grant made was

smaller than we wished, it will enable us to erect a building much larger than our old one, and to procure a moderate outfit of machines and tools for it. It is expected that the new structure will be completed by the first of January next.

There is just now a wide spread desire to combine more or less use of tools with all grades of instruction from the primary school up to the highest technical schools. Probably our nation is just now following its normal tendency to push a new experiment too far and to expect from it more than it can yield. This is not the place to discuss the general subject. But the question has been forced upon us for careful consideration, what is the duty of a University, and especially of this University, in furnishing opportunities for shop-work? Some have thought that we ought to organize a manual training school, in which to instruct in elementary mathematics, drafting and kindred studies and in the use of tools, young men who are to earn their living as skilled mechanics. That is a very useful and much needed work, but it does not seem to be a part of the work of an institution like this. Our plain duty seems too be to limit our mechanical outfit and our instruction in mechanical processes by the needs of the students of civil, mining and mechanical engineering. These needs already call for a larger equipment than we shall have after our legislative appropriation is exhausted. There is room here for private generosity to supplement public aid. We are encouraged to hope for some large exhibition of private liberality by the deep interest which the manufacturers of costly machinery have shown through their numerous and valuable gifts.

The legislative appropriations for the years 1885-6 were as follows: for repairs and contingent expenses for 1885, \$16,000; for 1886, \$16,000; for books for the libraires for 1885, \$5,000; for 1886, \$5,000; for the Homœopathic College and Hospital for 1885, \$6,200; for 1886, \$6,200; for the University Hospital for 1885, \$5,000; for 1886, \$5,000; for the Dental College for 1885, \$8,000; for 1886, \$8,000; for a clock, \$2,000 in

1885; for assistance in the Engineering Laboratory for 1885, \$1,000; for 1886, \$1,000; for increase in the salaries of the law professors for 1885, \$2,800; for 1886, \$2,800; for the removal of the gifts of Randolph Rogers from Rome in 1886, \$2,500; for the Engineering Laboratory for 1885, \$10,000; for 1886, \$5,000. Total for 1885, \$56,000; for 1886, \$51,500.

A bill to increase our one-twentieth mill tax to one-tenth of a mill passed the Senate almost without opposition, but failed by a few votes to pass the House.

During the past fifteen months the University has received gifts of a magnitude altogether beyond precedent in its history. The bequest of the Lewis Gallery of Art, comprising more than seven hundred paintings and pieces of statuary, was referred to in my last report. In February last, Christian H. Buhl, Esq., of Detroit, presented to the University about five thousand volumes of law books to be added to our Law Library. This more than doubled the number of volumes in that Library, and the additions consisted largely of Reports which supplemented and rendered more nearly complete our collections. A little later the distinguished sculptor, Randolph Rogers, of Rome, announced to us that he was about to send us a complete collection of the models and casts of his works, more than seventy in number. They include busts and full-length statues of many eminent men, monuments in commemoration of events in our history, especially in our civil war, the bronze doors of the Capitol, and ideal figures, which have given the artist a world-wide reputation. Mr. Rogers spent some of the years of his early manhood in this city, has always cherished a warm interest in the University, and therefore desires that the fruits of his long and brilliant artistic life shall be preserved here. On being informed of Mr. Rogers's generous intentions, the Legislature very promptly made an appropriation for defraying the expense of the transportation of the works of art from Rome. Last spring having learned that the Exhibit which the Chinese Government had sent to the New Orleans Exposition would

probably be bestowed on some public institution, I ventured to ask Sir Robert Hart, Inspector General of the Chinese Maritime Customs, under whose direction the Exhibit had been prepared, if the University could receive a part or the whole of the articles contained in it. In July I received the welcome information that the entire collection had been given to us, although some other very prominent institutions were applicants for it. It consists of several thousand articles, for the most part such as illustrate the industrial products and processes of the Chinese, and especially the growth and the manufacture of cotton. There is a number of objects in porcelain, and a considerable collection of the costumes worn by people in different stations of life. As an addition to our ethnological and industrial museums, this Chinese Exhibit is very valuable.

In speaking in my last report of the gift of the Lewis gallery, I called attention to the obvious necessity which such a bequest laid upon us of preparing at an early day for the organization of a School of Fine Arts. The appeal for such preparation is now greatly strengthened by the gift of the Randolph Rogers Collection. At no other University in the country is there a gallery of art comparable to that which these two great benefactions will place in our possession. It would be deliberately flinging away our opportunities and evading our plain duties, if with such facilities in our hands we should neglect to provide for instruction in the Fine Arts which will be so admirably illustrated here. It is furthermore an important subject for consideration whether a new building will not be needed to receive and suitably display the treasures which have been so generously bestowed upon us. Our present galleries for painting and sculpture are admirably adapted for collections of moderate extent. But the Rogers and Lewis Collections would overcrowd them both.

In speaking of gifts of works of art, I would not forget the most acceptable gift of a three-quarters length, life-size portrait of the late Governor Bagley, presented by Mrs. Bag-

ley in compliance with the request of some of the officers of the University. We are hoping we may secure the portraits of a good number of the benefactors of the institution, to be placed by the side of Governor Bagley's in the large reading room of the library or in some other suitable hall. It is much to be regretted that the attempt to obtain the portraits of the founders and especially of the earlier professors had not been made years ago. Many of them it will now be impossible to procure. But a hearty co-operation by the friends of the University will enable us still to make a collection which will be of the greatest interest and value.

Turning to the Professional Schools, we find that in the Department of Medicine and Surgery and the School of Pharmacy the work has gone on in the usual efficient manner. The former is incommoded by the want of room. Another building is greatly needed for the dissecting room and for other purposes. The erection of such a structure cannot properly be much longer delayed. The powerful and wide spread influence of our School of Pharmacy in elevating the grade of pharmacists' education and work is often and warmly recognized by their journals and associations. Papers written by our students and embodying the results of their researches are not unfrequently published in the English Chemical and Pharmaceutical Magazines.

In the Law School more rigorous methods of instruction have to some extent been introduced. Quizzing and careful mastery of certain text books occupy the attention of the student much more than formerly. I cannot resist the conviction that whenever the teaching force is large enough, it would be highly beneficial to grade the work more carefully, and to teach the classes separately more than is now the practice.

The Homœopathic Medical College suffered severely during the whole year, from the serious illness of Dr. Wilson and Dr. Obetz at the very opening of the term. A number of students were diverted from the school by the fear that

the usual instruction would not be given. The attendance was therefore very small and the circumstances under which work was carried on were very depressing. The School had also to encounter the usual amount of hostility and criticism from certain homœopathic physicians, whose unfriendliness to it is the most serious obstacle to its progress. The Faculty has been recruited with earnest and vigorous men, and it is hoped that the next year will be much more prosperous than the last. The homœopathic profession can hardly expect the State to maintain long, at the expense of \$12,000 a year, a school which they cannot with some fair degree of harmony and enthusiasm assist at least by sending their students to its lecture rooms. The Regents have given to no Department of the University more care and labor. They must leave it to the homœopathic physicians to say whether it shall have a sickly or a vigorous life.

The Dental College continues to show every sign of prosperity. The lengthening of the term to nine months did not, as we expected it would, reduce the number of students. On the contrary the attendance last year was larger than ever before. The rooms are too strait for the classes. Apparently we must soon enlarge the building or cut off some of the applicants for admission by more rigorous preliminary examinations. But these examinations are now quite as exacting as those for admission to the Law and Medical Schools.

The sum provided by the Legislature for repairs during this year has been judiciously expended and has enabled us to make our buildings more comfortable and attractive. An equal sum is available for next year, and can be most usefully employed. I think that the buildings of no public institution of the State were in so dilapidated a condition as ours, (with the exception of the Library) when this appropriation was voted us. It will be economical not to allow them again to remain so long without thorough repairs.

It appears by the Librarian's report that in all our libraries we now have 56,091 volumes, 12,204 unbounded

pamphlets, and 211 charts; of these there are in the General Library 44,130 volumes, 10,527 unbound pamphlets, and 211 charts; in the Medical Library 2,906 volumes, and 677 pamphlets; in the Law Library 9,055 volumes; and in the Dental Library 258 volumes. As elsewhere stated, more than half the volumes in the Law Library have been placed there this year by the generosity of C. H. Buhl, Esq., of Detroit. Exclusive of that gift, the increase in the Libraries during the year has been 2,246 volumes and 1,054 pamphlets, of which there have been presented 706 volumes and 1,054 pamphlets. The number of periodicals taken is 175. The number of volumes drawn during the year has been 89,388. Few, if any libraries are so much used.

The following facts concerning the several Museums are obtained from the annual reports of the Curators, herewith submitted.

In the palæontological department the entire collection of the proboscidian remains have been investigated, arranged and labeled by Dr. Winchell, and much work has been done by him in a careful study of the difficult group of the *stromatophoridae*. A large part of our specimens have been better arranged and labeled, and the larger part of Dr. Rominger's valuable collection has been received on deposit. It is greatly to be desired that this collection should be permanently secured for the University.

Though our funds have not been adequate to the increase of our mineralogical and lithological collections this year by purchase, several very acceptable gifts have been received from friends, whose interest in the University is heartily appreciated. Among those contributions may be specially named a set of rock specimens from the Bay Port quarries, presented by Hon. Wm. L. Webber, a box of specimens selected at the New Orleans Exposition by Commissioner Edward Kanter, and a set of 65 specimens illustrating the copper and silver ores near Glendale, Montana, sent by one of our young graduates, F. A. Ross. Dr. Rominger

has deposited with us a collection of over 3,500 specimens, mostly lithological, mainly from the iron regions along the Menominee River and near Marquette and Ishpeming, and with them he has furnished about 450 slides and sections prepared for study with the microscope. Favorable opportunities for the purchase of valuable specimens for the above museums are constantly presenting themselves. It would be judicious to appropriate, when the condition of our treasury will allow, a certain moderate sum each year for supplying by purchase some of the most serious deficiencies in our collections.

Considerable progress has been made in identifying, arranging and labeling our collections in zoology and some important additions to them have been received. We have large numbers of duplicate specimens, which could be made useful in exchange, if more assistance could be afforded in identifying them. The ethnological and industrial collections are greatly enlarged by the reception of the Chinese Exhibit. But a large part of the zoological and ethnological collections is still undisplayed for lack of cases. All the unoccupied room in the museum can at once be wisely filled with cases, if we have the means to construct them.

Some additions have been made to the Dental Museum and the Homœopathic Museum. Several individuals have presented valuable specimens to the Museum of the Department of Medicine and Surgery and some two hundred specimens have been prepared by the Curator and students. More case-room is urgently asked for.

The Museum of Applied Chemistry has been enlarged by a collection of rare medicinal drugs mostly of Asiatic origin, presented by Messrs F. Stearns & Co., of Detroit, who promise additional articles of the same class which they are gathering from various parts of the world, and by about one hundred and fifty specimens of common commercial articles, chiefly pigments and dye-stuffs, for practical use in study. Messrs. Parke, Davis & Co., of Detroit, are about to send us

a large general collection of crude drugs and pharmaceutical preparations classified upon the order of therapeutic action. The collections of pharmaceutical material still need to be much extended to meet the real wants of such a School of Pharmacy as ours.

The most important matter reported by the Curator of the Museum of Art is the gift of the Rogers models and casts already referred to. He also announces the gift by the last graduating class in the Literary Department, as a memorial of their deceased classmate, Frank K. Ferguson, of a full size cast of the celebrated colossal statue of Niobe. He has also been able to purchase with the proceeds of the sale of the Museum Catalogue, a cast of the well known Torso of Amor, by Praxiteles. Both of these works are on the way from Europe. The Art Museum and the Scientific Museum have been visited by large numbers of persons.

The Report of the Finance Committee shows that the problem of making our receipts cover our expenses, without embarrassing our work, is still a serious one. It is difficult for us to provide for continuing our instruction by its present methods and on the present scale. Furthermore, the rate of compensation of many of our teachers is below that paid in other institutions of similar rank and in many of inferior rank, and is in my judgment somewhat less than it ought to be. It should as soon as possible be made what it was in 1878. But we cannot and ought not to be content with the same grade and methods of work year after year. The progress of science and of education is constantly pressing new demands upon us. These we cannot ignore. Not to advance is to fall behind other institutions and to be unequal to the real needs of our students. Subjects must now be taught which thirty years ago we were not called to consider in our curriculum. What may be called the laboratory method of teaching most of the sciences has been shown to be so far superior to old methods of teaching them merely by text book and lecture that we must resort to it. But it renders necessary a large

teaching force, more room, more apparatus. Under our elective system we gladly invite students to carry special studies much farther than they formerly could. All this enlargement and specialization of instruction involves increased expense. But for a University to make no change in the scope and manner of its work, as the research of scholars is rapidly widening the domain of learning, is to decline, to degenerate, to begin to die. Continually to advance is the indispensable condition of vigorous life. The friends of the University, the State of Michigan as its chief patron may as well, first as last, face the fact that the expenditures of the University must, not rapidly perhaps, but yet steadily and constantly increase, if the institution is to retain that eminent position of which the State has been so proud. And why should not the State regard this fact with complacency, while her own resources are so steadily and rapidly increasing, and in all human probability are destined to go on increasing indefinitely? The most generous support of the University can never become a heavy burden to this rich and prosperous commonwealth. By the intelligence which the University has already diffused among the children of Michigan, by the large number of gifted and useful men, who have been attracted by her to the State as students and have remained as influential citizens, by her inspiring and elevating influence upon all the schools of the State, this institution, it may with modesty be claimed, has made a generous return to Michigan for every dollar expended for her support. How often have we heard eminent citizens from other parts of the country say that their States would be glad to pay to Michigan thrice what the University has cost, if they could take it with its history, its prestige and its power within their domain. I believe that the citizens of this State only need to know more intimately the work and the needs of the University to provide well for it. The State is so large, the homes of a large part of the citizens are so remote from us, that it is impossible for more than a small portion of them to have an acquaintance with the inner

life of the institution. But our graduates are becoming so numerous that they are now found in every part of the State and loyally represent us and enthusiastically report our work to their neighbors. We confidently believe therefore that the University will gain a stronger and stronger hold on the respect and affection of the State. If its means shall not increase as rapidly as we could wish, still the good Commonwealth whose name it bears will see that its future development is not altogether unworthy of what its past history has promised.

JAMES B. ANGELL.

Regent Joy submitted the following resolution, which was adopted:

Resolved, That the report of the President be accepted, adopted and printed in the minutes; and that one thousand extra copies be printed and bound in paper covers for the use of the Board and of the University.

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett.

Nays—None.

On motion of Regent Clark, the Board went into executive session.

At the close of the executive session, the business of the open session was resumed.

Prof. Charles H. Stowell addressed the Board on the needs of the Histological Laboratory, and also requested the Board to increase his salary.

Dr. Field, of Detroit, by permission, appeared before the Board, and urged the increase of Dr. W. H. Dorrance's salary, and also discussed the present needs of the Dental College.

The Finance Committee, through its Chairman, Regent Grosvenor, presented and read their Annual Report, which is as follows:

REPORT OF FINANCE COMMITTEE.

The Finance Committee of the Board of Regents herewith present the Treasurer's statement of receipts and expenditures for the

fiscal year ending September 30, 1885, and their estimates for the year ending September 30, 1886.

The Committee have caused the books and accounts of the Treasurer to be examined and checked, and have found satisfactory evidence of the correctness of all the items included in the Treasurer's report.

The receipts and the disbursements for the year have both been larger than was estimated a year ago. The estimated receipts were largely increased by the liberality of the Legislature, in making the appropriations that were asked by the Regents; and the disbursements have been very materially enlarged by the change in the time of paying salaries. The results of this change are that the present year's report includes five quarterly payments, and that there is at present no pay roll outstanding, as has usually been the case at the time of making the annual reports.

The large increase in the sum received from students is explained by the fact that in 1884 the Treasurer's accounts were closed on the 27th of September, and that about \$11,000.00 of receipts from that source, that properly belonged in the report for 1883-84, are included in the report of the present year.

Notwithstanding the assistance furnished by the Legislature, the Finance Committee are compelled to report that the disbursements have increased at such a rate as to absorb all the increase of revenue, and the balance on hand at the beginning of the year has been reduced by the sum of \$4,858.08. The General Fund is also overdrawn by the sum of \$1,941.51.

In making their estimates for the year 1885-86, they find also that, even when providing most economically for imperative demands and omitting many items they would like to include, the balance on hand will probably be further reduced by the sum of nearly \$15,000.00 by the end of September, 1886; and the greater part of this reduction will have to be borne by the General Fund.

E. O. GROSVENOR, }
C. J. WILLETT, } Finance Committee.

Estimate of Receipts for the Year Ending September 30, 1886.

Balance in Treasury, October 1st, 1885	\$ 22,153 86
To be received for University interest.....	38,000 00
“ “ 1-20 Mill Tax.....	40,500 00
“ “ Homoeopathic Department.....	14,200 00
“ “ University Hospital.....	5,000 00
“ “ College of Dental Surgery.....	8,000 00

To be received for Mechanical Laboratory.....	\$ 10,000 00
“ “ Repairs and Contingent Expenses.....	16,000 00
“ “ Salary of Law Professors.....	2,800 00
“ “ Library.....	5,000 00
“ “ Assistant in Mechanical Laboratory.....	1,000 00
“ “ Transporting Rogers' Collection.....	2,500 00
“ “ from Students' Fees and Deposits.....	60,000 00
“ “ Sale of Dental Supplies.....	2,500 00
“ “ Sale of Anatomical Material.....	600 00
“ “ Sales at University Hospital.....	500 00
“ “ Sales at Homœopathic Hospital.....	200 00
“ “ for Interest on Deposits.....	300 00
	<hr/>
	\$229,253 86

Estimate of Expenses.

For Salaries of Professors, Officers, and Employees.....	\$137,000 00
“ Repairs and Contingent Expenses.....	16,000 00
“ Fuel and Lights.....	11,000 00
“ Current Expenses of General Library.....	400 00
“ Medical Library.....	50 00
“ Law Library.....	50 00
“ Grounds.....	500 00
“ Postage.....	600 00
“ Insurance.....	480 00
“ Calendar, Regents' Proceedings, and Miscellaneous Printing.....	2,000 00
“ Museum.....	300 00
“ Supplies for Chemical Laboratory.....	8,000 00
“ Botanical Laboratory.....	100 00
“ Histological “.....	350 00
“ Physiological “.....	400 00
“ Mechanical “.....	400 00
“ Microscopical “.....	200 00
“ Physical “.....	100 00
“ General Chemistry.....	500 00
“ Department of Biology.....	300 00
“ “ Engineering.....	400 00
“ “ Anatomy.....	2,500 00
“ Astronomical Observatory.....	300 00
“ Advertising Literary Department.....	300 00
“ “ Medical Department.....	200 00
“ “ Law Department.....	200 00
“ “ Pharmacy Department.....	200 00
“ Cases for Chinese Exhibit.....	1,000 00
“ Purchase of Books for Libraries.....	6,500 00
“ Current Expenses of University Hospital.....	3,000 00
“ “ Homœopathic Department.....	4,000 00
“ “ College of Dental Surgery.....	2,500 00
“ Clock.....	2,000 00
“ Transportation of Rogers' Collection.....	2,500 00
“ Lease of Water Privilege.....	75 00

For Purchase and filling of Diplomas.....	600 00
“ Commencement Expenses.....	1,200 00
“ Taxes on Lots in Springwells.....	75 00
“ Furniture.....	100 00
“ Engineering Laboratory Building.....	15,000 00
Estimated Balance on hand Sept. 30, 1886.....	7,873 86
	<hr/>
	\$229,253 86

E. O. GROSVENOR, }
 J. J. VAN RIPER, } Committee.
 CHAS. J. WILLETT, }

On motion of Regent Willett the report was adopted and ordered printed.

The following is the Treasurer's report for the fiscal year ending September 30th, 1885.

To the Committee on Finance, Board of Regents, University of Michigan:

GENTLEMEN: Herewith I submit a statement of the receipts and disbursements of this office for the fiscal year ending with September 30th, 1885.

Respectfully,

H. SOULE,
 Treasurer.

Receipts.

Balance in Treasury October 1st, 1884.....	\$ 27,011 94
Received from State Treasurer, acct. State Aid 1-20 Mill Tax. \$	40,500 00
“ “ “ “ “ University Interest.....	38,521 02
“ “ “ “ “ Additional Professor... ..	2,200 00
“ “ “ “ “ Assistant in Mechanics.	1,000 00
“ “ “ “ “ Homœopathic College.. ..	3,000 00
“ “ “ “ “ University Hospital....	5,000 00
“ “ “ “ “ Libraries.....	5,000 00
“ “ “ “ “ Dental College.....	8,000 00
“ “ “ “ “ Increase of law salaries ..	2,800 00
“ “ “ “ “ Repairs and Contingent ..	16,000 00
“ “ “ “ “ Engineering Laboratory ..	5,000 00
“ “ “ “ “ Clock	2,000 00—134,021 02
“ “ University Hospital	\$ 828 31
“ “ Homœopathic Hospital.	197 09
“ “ General Library.....	1 00
“ “ Dental College.	3,048 76
“ “ Anatomical Sales.....	1,086 10
“ “ Interest.	226 86
“ “ Miscellaneous.....	615 53
“ “ “ Law duplicate Books	
“ “ sold	75 00—
“ “ Students' Fees.....	6,078 65
	<hr/>
	72,956 08
	<hr/>
	\$240,067 69

Disbursements.

Paid Salaries of Officers, Professors, and Employees..	\$160,837 84
“ Vouchers acct. General Fund, current expenses.....		32,987 95
“ “ “ Homœopathic College, current expenses		2,510 62
“ “ “ Dental College, “ “		2,521 53
“ “ “ General Library, “ “		3,520 02
“ “ “ University Hospital, “ “		2,120 32
“ “ “ Homœopathic Hospital, “ “		799 23
“ “ “ Eye and Ear Ward, “ “		2 77
“ “ “ Physical Laboratory, “ “		1,293 33
“ “ “ Physiological Laboratory “ “		520 27
“ “ “ Engineering Laboratory “ “		195 98
“ “ “ Repairs and Contingent “ “		10,604 57—217,913 83
Balance in Treasury Sept. 30th, 1885.....		22,153 86
		<hr/> \$240,067 69

Recapitulation.

RECEIPTS TO THE GENERAL FUND.

Balance in Treasury, Oct. 1, 1884.....		\$ 16,545 08
From State Treasurer, acct. State Aid.....	\$ 40,500 00	
“ “ “ “ Interest.....	38,521 02	
“ First National Bank Interest on Deposits.....	226 86	
“ Sale of Anatomical Material to Medical Schools....	1,086 10	
“ Miscellaneous sources.....	690 53—\$ 81,024 51	
“ Students' Fees, acct. Medicine and Surgery..	\$ 16,585 00	
“ “ “ “ A. and A. Chemistry....	8,169 08	
“ “ “ “ Literary.....	14,155 00	
“ “ “ “ Law.....	16,425 00	
“ “ “ “ Dental.....	4,572 00	
“ “ “ “ Pharmacy.....	2,655 00	
“ “ “ “ Mechanical..	237 00	
“ “ “ “ Homœopathic College..	1,765 00	
“ “ “ “ General Chemistry.....	224 00	
“ “ “ “ Practical Anatomy.....	3,555 00	
“ “ “ “ Microscopical.....	207 00	
“ “ “ “ Histological.....	682 00	
“ “ “ “ Diplomas....	3,725 00—\$ 72,956 08	
Less returned fees.....	3,167 01—\$ 69,789 07	
		<hr/> \$167,358 66
Balance overdrawn.....		1,941 51
		<hr/> \$169,300 17

Disbursements from the General Fund.

Paid Salaries to Officers, Professors and Employees.....	\$ 139,367 94
“ Vouchers acct. Contingent.....	3,583 28
“ “ “ Alterations and Repairs.....	1,210 37
“ “ “ Fuel and Lights.....	10,913 86
“ “ “ General Library.....	409 24
“ “ “ Medical Library.....	302 15

Paid Vouchers acct. Law Library.....	\$	241	01
“ “ “ Grounds.....		475	34
“ “ “ Postage.....		495	35
“ “ “ Insurance.....		80	00
“ “ “ Advertising.....		761	81
“ “ “ Museum.....		167	08
“ “ “ Chemical Laboratory.....		5,318	82
“ “ “ Botanical Laboratory		61	40
“ “ “ Histological Laboratory.....		172	62
“ “ “ Microscopical Laboratory.		49	21
“ “ “ General Chemistry.....		574	71
“ “ “ Engineering		365	99
“ “ “ Astronomical Observatory.....		124	60
“ “ “ Furniture and Apparatus.....		10	50
“ “ “ Anatomical.....		2,170	45
“ “ “ Physical Laboratory.....		9	72
“ “ “ Physiological Laboratory		132	93
“ “ “ Chinese Exhibit.....		332	92
“ “ “ Advertising Medical Department.....		206	48
“ “ “ “ Law. “		212	10
“ “ “ “ Pharmacy “		153	35
“ “ “ Calendar.....		899	75
“ “ “ Mechanical Laboratory.....		385	90
“ “ “ Transfer from Mechanical Laboratory..		111	29—\$169,300 17

Special Funds.**HOMCEOPATHIC COLLEGE.****RECEIPTS.**

Balance in Treasury, Oct. 1st, 1884.....	\$	2,188	32
From State Treasurer.....		8,000	00 \$ 10,188 32

DISBURSEMENTS.

Paid Salaries of Professors and Employees.....		6,819	90
“ Vouchers for Current Expenses.....		2,510	62
Balance in Treasury, Sept. 30th, 1885.....		857	80 10,188 32

ADDITIONAL PROFESSOR.**RECEIPTS.**

From State Treasurer.....		2,200	00 2,200 00
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DISBURSEMENTS.

Paid Salary of Professor.....		2,200	00 2,200 00
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UNIVERSITY HOSPITAL.**RECEIPTS.**

Balance in Treasury Oct. 1st, 1884.....		600	02
From State Treasurer.....		5,000	00
“ Material Sold		828	31 6,428 33

DISBURSEMENTS.

Paid Salaries of Surgeon and Employees.....		2,037	50
“ Vouchers for Current Expenses.....		2,120	32
Balance in Treasury, Sept. 30th, 1885.....		2,270	51 6,428 33

HOMCEOPATHIC HOSPITAL.**RECEIPTS.**

Balance in Treasury, Oct. 1st, 1884.....		1,002	16
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From Sale of Material.....	\$ 197 09	
Balance Overdrawn, Sept. 30th, 1885.....	462 48	1,661 73

DISBURSEMENTS.

Paid Salaries of Surgeon and Employees.	862 50	
“ Vouchers for Current Expenses	799 23	1,661 73

EYE AND EAR WARD.

RECEIPTS.

Balance in Treasury, Oct. 1st, 1884.....	2 77	2 77
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DISBURSEMENTS.

Paid Vouchers for Current Expenses.....	2 77	2 77
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GENERAL LIBRARY.

RECEIPTS.

Balance in Treasury, Oct. 1st, 1884.....	3,380 78	
From State Treasurer.....	5,000 00	
“ Sundry Sources.....	1 00	8,381 78

DISBURSEMENTS.

Paid Vouchers Current Expenses	3,520 02	
Balance in Treasury, Sept. 30th, 1885.....	4,861 76	8,381 78

MECHANICAL LABORATORY.

RECEIPTS.

Transferred to General Fund Account.....	111 29	111 29
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DISBURSEMENTS.

Balance Overdrawn Sept. 30th, 1884.....	111 29	111 29
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ASSISTANT IN MECHANICAL LABORATORY.

RECEIPTS.

From State Treasury.....	1,000 00	1,000 00
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DISBURSEMENTS.

Paid Salary.....	1,000 00	1,000 00
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PHYSIOLOGICAL LABORATORY.

RECEIPTS.

Balance in Treasury, Oct. 1st, 1884.....	731 63	731 63
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DISBURSEMENTS.

Paid Vouchers Current Expenses.....	520 27	
Balance in Treasury, Sept. 30th, 1885.....	211 36	731 63

PHYSICAL LABORATORY.

RECEIPTS.

Balance in Treasury, Oct. 1st, 1884.....	1,384 75	1,384 75
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DISBURSEMENTS.

Paid Vouchers Current Expenses.....	1,293 33	
Balance in Treasury, Sept. 30th, 1885.....	91 42	1,384 75

DENTAL COLLEGE.

RECEIPTS.

Balance in Treasury, Oct. 1st, 1884.....	1,287 72	
From State Treasurer	8,000 00	
“ Sale of Material and Appliances.....	3,048 76	12,336 48

DISBURSEMENTS.

Paid Salaries, Professors and Employees.....	5,750 00	
“ Vouchers, Current Expenses.....	2,521 53	
Balance in Treasury, Sept. 30th, 1885.....	4,064 95	12,336 48

INCREASE OF SALARIES, LAW PROFESSORS.

RECEIPTS.		
From State Treasurer	2,800 00	2,800 00
DISBURSEMENTS.		
Paid Salaries to Professors.....	2,800 00	2,800 00

ENGINEERING LABORATORY.

RECEIPTS.		
From State Treasurer	5,000 00	5,000 00
DISBURSEMENTS.		
Paid Vouchers, Current Expenses.....	195 38	
Balance in Treasury, Sept. 30th, 1885.....	4,804 62	5,000 00

UNIVERSITY CLOCK.

RECEIPTS.		
From State Treasurer.....	2,000 00	2,000 00
DISBURSEMENTS.		
Balance in Treasury, Sept. 30th, 1885.....	2,000 00	2,000 00

Statement of Special Funds.

BALANCES IN TREASURY, SEPT. 30TH, 1885.

In Homœopathic College.....	\$ 857 80	
University Hospital.....	2,270 51	
General Library.....	4,861 76	
Physiological Laboratory.....	211 36	
Physical ".....	91 42	
Dental College.....	4,064 95	
Clock.....	2,000 00	
Engineering Laboratory.....	4,804 62	
Repairs and Contingent.....	5,395 43	
	<hr/>	
	\$ 24,557 85	
Deduct Overdrawn Balance in Homœopathic Hospital.....		\$ 462 48
" " " General Fund Account.....		1,941 51
Balance in Treasury, Sept. 30th, 1885.....		<hr/> 22,153 86
		<hr/>
		\$ 24,557 85

On motion of Regent Joy, the salary of Professor Charles H. Stowell was fixed at \$1,800.00 for the ensuing year, by the following vote:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett.

Nays—None.

On motion of Regent Joy, the request of Arthur L. Green, Assistant in Pharmacognosy, for leave of absence, was referred to the President with power.

The resignation of Miss Margaret Humphreys, Assistant in the Dental College, was received and accepted.

On motion of Regent Joy, Miss E. A. Hallock was appointed Assistant in the Dental College, to fill the vacancy caused by the resignation of Miss Humphreys, at a salary of \$500.00. A call vote being taken on the motion of Regent Joy, resulted as follows:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett.

Nays—None.

Regent Joy presented and read the following communication from the Dean of the School of Pharmacy:

UNIVERSITY OF MICHIGAN, }
SCHOOL OF PHARMACY, October 12, 1885. }

To the Honorable the Board of Regents:

The Faculty of the School of Pharmacy respectfully report that Mr. De Lagnel Haigh, having completed the requirements for graduation, is recommended to you for the degree of Pharmaceutical Chemist.

By direction of the Faculty,

ALBERT B. PRESCOTT, Dean.

Regent Joy submitted the following resolution which was adopted:

Resolved, That the degree of Pharmaceutical Chemist be, and is hereby conferred upon De Lagnel Haigh, in accordance with the recommendation of the Faculty of the School of Pharmacy.

Regent Joy presented and read the following communication from Prof. A. B. Prescott, Dean of the School of Pharmacy:

UNIVERSITY OF MICHIGAN, }
CHEMICAL LABORATORY, October 13, 1885. }

To the Honorable the Board of Regents:

GENTLEMEN,—I beg leave to present you, at his request, the resignation of Theodore Royer, Jr., as Assistant in Quantitative Analysis for the present year, and I respectfully recommend that this vacancy be filled by the advance of Edward D. Campbell, for the year 1885-6, at the salary of the previous incumbent, two hundred and fifty dollars. And to fill the place made vacant by the advance of Mr. Campbell, I recommend the appointment of Louis M. Dennis, Ph. B., as Assistant in the Chemical Laboratory, for the year 1885-6,

at a salary of \$130, the same paid the previous incumbent. (See minutes of the Board, June meeting, 1885, p. 555).

I desire to ask of your Honorable Body a leave of absence from the University for the second semester of the present college year, 1885-6, with payment of one-half annual salary for services in the first semester. Should this request be granted, I beg leave to recommend, (1) that Assistant Professor Otis C. Johnson be appointed to be in charge of the Chemical Laboratory during the second semester, and, in consideration of this addition to his duties, that he receive, during one-half of the present university year, a salary at the rate of \$2,200 per annum. (2) That Theodore J. Wrampelmeier be appointed Assistant Professor of Organic Chemistry and of Pharmacy, for the year 1885-6, at a salary of \$1,600 per annum. (3) It is proper to state that additional assistance in pharmacy, in the second semester, at an expenditure not exceeding \$200, will be required. Also, that the contemplated recommendation for teaching service under the unexpended remainder of Mr. Van Slyke's salary, referred to in my communication of June 23, 1885, (Minutes, p. 555), may be still longer deferred.

Very respectfully,

ALBERT B. PRESCOTT,

Director Chem. Lab.

The request of Prof. A. B. Prescott for leave of absence and his recommendations for the reorganization of the work in the Chemical Laboratory during his absence were concurred in by the following vote:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett.

Nays—None.

On motion of Regent Grosvenor, the salary of Michael Condon was fixed at \$600.00 for the ensuing year, by the following vote:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Joy, Clark and Willett.

Nays—None.

The following communication from the University Senate was presented and read by Regent Blair:

Resolved, That the Auditing Board be instructed to furnish the Zoological Laboratory with such material as they may deem proper, at a cost not exceeding \$150.

A call vote being taken on the above resolution resulted as follows:

Ayes—Regents Duffield, Grosvenor, Shearer, Blair, Clark and Willett.

Nays—None.

The Auditing Board reported that they had fixed the price of board to patients in the Hospital at \$3.50 per week, and that, in consideration for certain supplies furnished by the University, the Matron is required to pay the Treasurer the sum of \$700.00 per annum.

On motion of Regent Grosvenor, the action of the Auditing Board (as reported above) was approved.

On motion of Regent Blair, the Board adjourned.

JAMES H. WADE,

Secretary.